

### III. REMARKS

1. Claim 32 is amended to correct the claim dependency. Claims 10, 11 and 26 are amended to correct typographical errors. Claim 41 is new. Applicant appreciates the Examiner's indication of allowable subject matter in the objected to claims. However, Applicant believes the claims should be allowable in their present form for the reasons stated below.

2. Claims 1-5, 7, 9, 15-25, 27, 29 and 35-40 are not unpatentable over Kara (W/O 97/14117) in view of Berson (U.S. Patent No. 5,768,384) under 35 U.S.C. §103(a).

Claim 1 recites generating shipping/mailing data for an article at a client terminal. The client terminal communicates with a host terminal and information is transferred between the host and client to generate the shipping/mailing data. The shipping/mailing data is then produced to generate a "shipper's label." This is not disclosed or suggested by Kara in view of Berson.

Kara relates to generating postage due at a meter that is generated by the meter and printed as a meter stamp. Kara does not disclose or suggest communication between a client and host to generate "shipping/mailing data" or producing shipping/mailing data to produce a "shipper's label" as claimed by Applicant.

Berson does not overcome the deficiencies of Kara. Berson does not generate shipping/mailing data or produce shipping/mailing data for generating a shipper's label.

Berson creates encrypted information that is affixed to a manufactured article. (Col. 2, lines 29-31). The information is produced locally by the manufacturing meter. (Col. 2, lines 41-50; Col. 3, line 66 to Col. 4, line 4). Although Berson refers to a data center 40, the data center only provides authorization to manufacture an article. (Col. 4, lines 28-37). It does not transfer data to generate or produce a "shipper's label".

Particularly, Berson does not relate to shipping or mailing articles, generating shipping or mailing data or producing the shipping/mailing data. Berson only produces information to "identify" a manufactured article. (Col. 2, lines 41-63).

Thus, since neither Kara nor Berson disclose or suggest each feature of Applicant's invention according to claims 1 and 21 these claims, and the claims that depend therefrom, namely 2-5, 7, 9, 15-20, 22-25, 27, 29 and 35-40, should be allowable.

3. It is also submitted that there is no motivation to combine Kara with Berson to achieve Applicant's invention, as is required for obviousness under 35 U.S.C. §103(a). In order to establish a *prima facie* case of obviousness under 35 U.S.C. §103(a), there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the references or combine reference teachings. There must also be a reasonable expectation of success, and the reference(s), when combined, must teach or suggest all of the claim limitations. (See M.P.E.P. §2142). As noted above, the combination of Kara and Berson does not disclose or suggest each feature of Applicants' invention as claimed.

Furthermore, neither reference provides the requisite suggestion or motivation to modify the references as proposed by the

Examiner. The Examiner's proposition that Applicants' invention would be obvious as recited in the claims is not supported by the factual contents of Kara and Berson.

Kara is directed to printing postage on an article at the meter site. Berson is directed to tracking articles of manufacture through manufacturing and distribution. Applicant's invention is directed to producing shipping and mailing label and communicating with a host center to transfer information. The diverse nature of both Kara and Berson would not lead one of skill in the art to consider the proposed combination to achieve Applicant's invention.

The references themselves and/or the knowledge generally available to one of skill in the art does not provide the requisite motivation or suggestion to modify the references as proposed for purposes of 35 U.S.C. §103(a). When "the PTO asserts that there is an explicit or implicit teaching or suggestion in the prior art, it must indicate where such a teaching or suggestion appears in the reference". In re Rijckaert, 28 USPQ2d 1955, 1957 (Fed. Cir. 1993). The Examiner is requested to provide an indication as to where any such teaching, suggestion or motivation appears in the references. Absent such a teaching, it is submitted that a *prima facie* case of obviousness over Kara and Berson under 35 U.S.C. §103(a) is not established.

4. Additionally, Applicant respectfully notes that Kara and Berson have been combined improperly. References may be combined under 35 U.S.C. §103(a) only if the references are analogous art. In this case Kara and Berson are not analogous art. A reference is analogous art if:

- 1) The reference is in the same field of endeavor as the applicant's, or
- 2) The reference is reasonably pertinent to the particular problem with which the applicant was concerned.

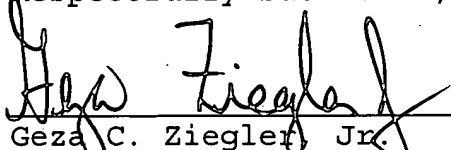
Neither Kara nor Berson are in the same field as the Applicant's invention. Kara is directed to printing postage on an article. Berson is directed to tracking articles of manufacture through manufacturing and distribution. Applicant's invention is directed to producing shipping and mailing labels. Kara has nothing to do with a shipping or mailing label. It is only a system to produce postage indicia. Berson is not related to shipping or mailing labels, or even postage indicia. Berson merely tracks articles of manufacture. These are not the same fields of endeavor. Furthermore, neither Kara nor Berson are reasonably pertinent to the particular problem with which the Applicant was concerned. Applicant was concerned with printing shipping and mailing labels and producing shipping/mailing data for generating a shipper's label. Neither Kara nor Berson are reasonably pertinent to producing a shipper's label. Thus, Kara and Berson do not address the problems addressed by Applicant's invention. Since Kara and Berson are not in the same field of endeavor as the Applicant's endeavor and are not reasonably pertinent to the particular problem with which the Applicant was concerned, Kara and Berson are not analogous art. Therefore, Kara may not properly be combined with Berson for purposes of 35 U.S.C. §103(a).

For all of the foregoing reasons, it is respectfully submitted that all of the claims now present in the application are clearly novel and patentable over the prior art of record, and are in proper form for allowance. Accordingly, favorable

reconsideration and allowance is respectfully requested. Should any unresolved issues remain, the Examiner is invited to call Applicants' attorney at the telephone number indicated below.

A check in the amount of \$18 is enclosed for an additional claim fee. The Commissioner is hereby authorized to charge payment for any fees associated with this communication or credit any over payment to Deposit Account No. 16-1350.

Respectfully submitted,

  
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29 June 2004  
Date

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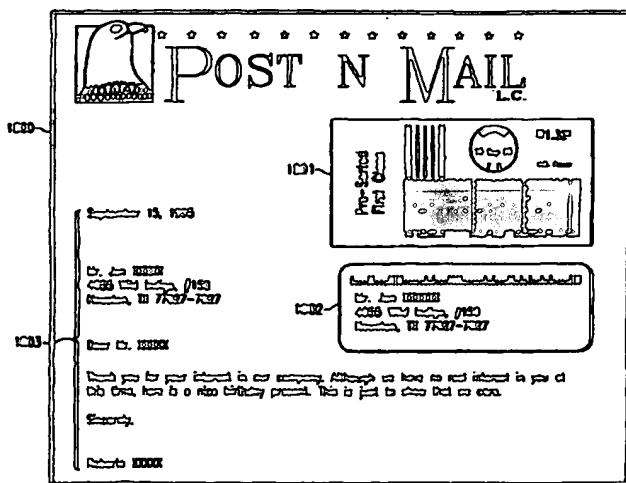
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## INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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<b>(21) International Application Number:</b> PCT/US96/16366 <b>(22) International Filing Date:</b> 11 October 1996 (11.10.96)  <b>(30) Priority Data:</b> 08/540,658      11 October 1995 (11.10.95)      US 08/561,417      21 November 1995 (21.11.95)      US  <b>(71) Applicant:</b> E-STAMP CORPORATION [US/US]; Suite 110, 3050 Post Oak Boulevard, Houston, TX 77056-6524 (US).  <b>(72) Inventor:</b> KARA, Salim, G.; Suite 110, 3050 Post Oak Boulevard, Houston, TX 77056-6524 (US).  <b>(74) Agents:</b> TANNENBAUM, David, H. et al.; Fulbright & Jaworski L.L.P., Suite 2800, 2200 Ross Avenue, Dallas, TX 75201 (US).		<b>(81) Designated States:</b> AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>Without international search report and to be republished upon receipt of that report.</i>

(54) Title: SYSTEM AND METHOD FOR RETRIEVING, SELECTING AND PRINTING POSTAGE INDICIA ON DOCUMENTS



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**SYSTEM AND METHOD FOR RETRIEVING, SELECTING AND  
PRINTING POSTAGE INDICIA ON DOCUMENTS**

**TECHNICAL FIELD OF THE INVENTION**

5       This invention relates, in general, to printing  
postage indicia on mail. More specifically, the  
invention relates to a system and method for creating  
postage indicia in conjunction with a word processing  
document and for displaying and/or transferring the  
indicia on the front of an envelope. The system will  
calculate the postage due and personalize the postage  
indicia.



BACKGROUND OF THE INVENTION

The use of word processors running on general purpose computers is so common place today as to be taken for granted. Children, as well as adults, use  
5 such word processing programs to create, format and print (in selected colors, fonts and size) every conceivable type of document. These systems are used to create all manner of designs and to print the creations on all manner of printable material in addition to  
10 paper. One example for the use of such processors that has become very popular is to use them for the creation of paper checks. This use is typically in conjunction with an accounting program which mimics a user's checkbook. Another use is the creation of T-shirt  
15 designs and the subsequent printing of such T-shirts (or other material) under control of the user.

Often, the document that is created by the user in the processor (for example, a letter or a check) is then mailed to some other location. This entails the  
20 placing of the document (or other material) in a mailing container (envelope), addressed, and supplied with sufficient postage.

Many of the programs in use today print the mailing address (as taken from the document) on labels  
25 which are printed in conjunction with the creation of the document. These labels then are peeled off the document and transferred to the outside of the mailing envelope to save the user time and to avoid placing the envelope in the printer or otherwise addressing the  
30 envelope.

However, using such system the user still must add postage to the mailing envelope manually or the user must run the mailing container (envelope) through a postal meter. At best, this is one additional step.  
35 At worst, in the case of a nonconforming mailing

container such as a carton, several additional steps are required.

Furthermore, the customer is limited in the graphic configuration of the postage applied to the letter to those configurations printed and sold by the Post Office. Currently, the customer does not have the ability to create a customized postage indicia that would correspond to the message on a particular document.

Accordingly, there is a need in the art for a system and method that provides for the printing of an appropriate amount of authorized postage by the same general purpose processors that allow the customer to create documents.

Thus, it is an object of the present invention to provide a means for the customer to enter the appropriate rate determining information such as the address to which the customized greeting card is being sent, what class of mail is being used, etc., and have the processing system that formats and prints a document to concurrently calculate the appropriate postage for the greeting card and print the appropriate postage for that document at the same time the document is being printed.

SUMMARY OF THE INVENTION

The present invention fulfills the needs discussed above by disclosing a method and a system whereby a customer may automatically calculate the correct amount of postage, print the correct amount of postage, 5 personalize a selected stamp indicia, and print address labels at the same location where the customer generates a customized greeting card.

In accordance with one aspect of the present 10 invention, a general purpose computer based system is disclosed which operates in conjunction with a conventional word processing program, check creation program or with any other program that can format and control the printing of user controlled documents to 15 allow the user to automatically calculate the correct amount of postage for that document and to print that postage at the same time the document is being printed.

In one embodiment, the printed postage indicia is put in a corner of the document so that after the 20 document is placed in an envelope, the postage will show through a glassine "window" created in the envelope.

In another embodiment, the postage indicia is printed on a transfer sheet and physically transferred 25 to the outside of the mailing envelope or package.

The discussed system can also generate postage which includes a personalized postage indicia which may also contain an encrypted message, such as a PostNet Zip+4 bar code, as a function of mailing parameters 30 entered into the system and particular to the associated document.

One technical advantage of this invention is that a printer can create a document as well as the postage to mail that document during one pass across the blank 35 writing medium.

A further advantage of this system is that the user can select a postage indicia from a menu of available graphic configurations to correspond with the type of document being generated and the system will  
5 print the postage as part of the document.

Yet another advantage of this system is that the postage generated by the system will have a PostNet Zip+4 bar code printed on it which makes that piece of mail easier to sort, route and deliver.

10 The foregoing has outlined rather broadly the features of the present invention in order that the detailed description of the invention that follows may be better understood. Additional features of the invention will be described hereinafter which forms the  
15 subject of the appended claims. It should be appreciated by those skilled in the art that the conception and the specific embodiments disclosed may be readily utilized as a basis for modifying or designing other structures for carrying out the same  
20 purposes of the present invention. It should also be realized by those skilled in the art that such equivalent constructions do not depart from the spirit and scope of the invention as set forth in the claims of the invention.

**BRIEF DESCRIPTION OF THE DRAWINGS**

For a more complete understanding of the present invention, and the advantages thereof, reference is now made to the following descriptions taken in conjunction  
5 with the accompanying drawings, in which:

FIGURE 1A illustrates a processor-based system for implementation of the present invention;

FIGURE 1B illustrates several embodiments of the postage storage device;

10 FIGURE 2 illustrates an embodiment of user instructions and screen prompts utilized by the present invention to interface with a user when installing the program on the processor-based system for implementation of the present invention;

15 FIGURE 3 illustrates an embodiment of a user registration form;

FIGURES 4A-4B illustrate a display screen utilized by the present invention to interface with a U.S. Post Office employee when replenishing postage within the  
20 present invention;

FIGURE 5 illustrates a flow diagram of the replenishing process;

FIGURE 6 illustrates a preferred embodiment of the security techniques utilized within the present  
25 invention;

FIGURES 7A and B illustrate a flow diagram for controlling the removal of data from the memory of a postal storage device;

FIGURE 8 illustrates how a postage button is  
30 encoded;

FIGURE 9 illustrates a flow diagram of the operation of the present invention within a card generating system;

FIGURE 10 illustrates one embodiment of a display interface provided to a customer for selecting a type of greeting card;

5       FIGURE 11 illustrates one embodiment of a display interface provided to a customer for selecting a style of greeting card;

FIGURES 12A and B illustrate one embodiment of a personalized greeting card;

10       FIGURE 13 illustrates a display interface provided to a customer when accessing the present invention on a card generating system;

FIGURE 14 illustrates one embodiment of a display interface provided to a customer for selecting a type of postage indicia;

15       FIGURE 15A illustrates one embodiment of a display interface provided to a customer for selecting a specific postage indicia that can be personalized by the customer;

20       FIGURE 15B illustrates a postage indicia that has been personalized;

FIGURES 16A and B illustrate two embodiments of print formats of the information entered into the "E-STAMP" program;

25       FIGURE 17 is a flow chart of system operation working in conjunction with another word processing program;

FIGURE 18 is a view of a document having on it a transfer mechanism for moving the printed indicia from the document to the front of the envelope;

30       FIGURE 19 shows a check with the postage indicia printed on the face of the check; and

FIGURE 20 shows an envelope having a transfer mechanism for showing the postage to a viewer outside the envelope.

DETAILED DESCRIPTION OF THE INVENTION

The present invention provides for a portable postage storage device, described in more detail below, that can be coupled to a general purpose

5 processor-based system that interacts with a customer to generate a document, or other piece of mail.

The present invention further provides for a method and system, described in co-pending U.S. application serial no. 08/263,751 and incorporated  
10 herein by reference, for automatically calculating the appropriate amount of postage for a piece of mail, printing that amount of postage and deducting the printed amount of postage from the total amount of postage stored within the portable postage storage  
15 device. In addition, the present invention allows the user to retrieve, select, personalize and print postage indicia.

The present invention will allow an amount of authorized postage to be loaded into a portable postage  
20 storage device by the U.S. Post Office via a processor-based system hereinafter referred to as the "POSTAGEMAKER" program. Although reference is often made to the U.S. Post Office, the present invention may be implemented within any country and with respect to  
25 any postal system.

The loaded postage may be accessed and a portion of that postage retrieved via a program stored on a processor-based system, such program hereinafter referred to as the "E-STAMP" program. The E-STAMP  
30 program may be stored on a processor-based system that also contains a document generating system. The document generating system may be used to generate customized mail, as for example personalized greeting cards.

A detailed discussion of the inventive concepts of this invention will now be made with respect to FIGURES 17 through 20. A detailed discussion of the general system operation is contained in this disclosure hereinafter with respect to FIGURES 1A through 16B. The user is referred to the subsequent discussion to gain an understanding of how the general purpose processor works in conjunction with the portable processor to control the dispensation and creation of postage indicia.

Referring now to FIGURE 17 two embodiments of the invention are shown, one proceeding from check processing program 1701 and the other from word processing program 1702. It should be noted that these programs are well-known in the art and are typical of the many application types available for document preparation. For example, a typical well-known check processing program is available to the general public from Intuit Corporation and is licensed under the trade name "Quicken". Available to every user with the "Quicken" program is a manual of operation of the "Quicken" system, which is hereby incorporated by reference herein.

Similarly, a typical well-known word processing program could be, for example, the "Word" system from Microsoft. Also included with each word processing program from Microsoft is a manual of operation giving extensive details of the operation of the "Word" system from a user's perspective. Such manual is hereby incorporated by reference herein.

Decision box 1703 makes a determination of whether the automatic postage box is on. The automatic postage box, for example, would be a designation made by the user of either the check processing program or the word processing program contained within that system any information being communicated to a decision point.



Obviously, if the answer is no, the program then would skip to the regular check processing program or word processing program or whatever other program is being run as shown in box 1704.

- 5        If the answer is yes, then the user is queried in box 1705 as to whether he/she wishes to use a database of indicia that have already been created.

         If the answer is no, the program skips to box 1709. If the answer is yes, then the program goes to  
10   box 1706 where the user is asked whether the user wishes to create his/her own indicia or whether the user wishes to modify indicia.

         If the user wishes to create his/her own indicia, then the user is referred to box 1707 where a drawing  
15   program is provided for the creation of the indicia. One such program can be the macromedia free-hand program which is available to the general public and which comes with an operating manual, which operating manual is hereby incorporated by reference herein.

20        If the user, as shown in box 1706, simply wishes to modify an existing indicia, then the user is referred to box 1708 where the existing database is made available and the user selects the indicia of the user's choice and either uses it directly or modifies  
25   it.

         When such modification is finished, the user is then referred back to box 1709 and determination is made as to whether this is a draft. The reason for this is that if it is a draft, there is no need to  
30   print the postage thereon.

         If it is a draft, then the program moves to box 1710 and returns to the controlling word processor program where regular formatting and printing is controlled.

35        However, in box 1709, if this is a final version, a determination is made via box 1711 as to whether this

is a check. If it is a check, then the amount of postage is calculated allowing for the envelope size and weight in box 1713.

However, if this is a word processing program, the  
5 page count is obtained via box 1712 from the  
controlling word processor program in box 1702 so that  
the system can, based upon the number of pages,  
calculate the amount of postage that will be due and,  
as shown in box 1713, allowing for the envelope size  
10 and weight will determine the amount of postage to be  
printed.

Box 1714 prints the postage indicia on a transfer  
media on the letter or prints it directly on the letter  
for situations where the postage is going to be used in  
15 a glassine-type envelope or otherwise transferred to a  
user without a peel-off label, as will be discussed.

In FIGURE 19 there is shown a check 1900 with  
sender's address location 1903, payee's address box  
1902 and having a place 1901 for the printing of the  
20 postage.

Location 1901 is where the postage indicia is  
printed. However, located at Location 1901 can be a  
label which is peeled off and which thereby allows the  
user to transfer the postage to the outside of an  
25 envelope, such as envelope 2000. Location 1901 also  
could be an ink type that when printed on establishes a  
special transfer facility such that when the check is  
placed in an envelope of the proper type, a like  
position, such as position 2001 of envelope 2000 shown  
30 in FIGURE 20 is in juxtaposition with Location 1901  
will react with the ink medium or other special  
transfer facility of 1901, thereby presenting to a  
viewer on the outside of the envelope, the postage  
indicia on the inside.

35 In this manner a transfer occurs between postage  
printed on check 1900 and the outside of envelope 2000

without the need for removing and repasting the label. This transfer could occur as a chemical reaction or otherwise under perhaps heat control as generated by a user's finger or by any other mechanism desired. Of course, box 2001 of FIGURE 20 can be a glassine window which allows a viewer to see the postage printed at position 1901 of check 1900.

FIGURE 18 shows a letter 1800 having a body of the letter in 1803 with a postage indicia label 1801 and an address label 1802. As just discussed, postage indicia label 1801 could be removed and positioned on the outside of an envelope or the indicia could be imprinted directly on the envelope and the envelope folded such that position 1801 of letter 1800 will show through window 2001 of envelope 2000 in FIGURE 20.

Address label 1802 could be utilized in the same manner or the address label 1802 not printed at all and a viewer view the name through a glassine window such as window 2002 of envelope 2000 in FIGURE 20.

#### General System Operation

Referring to FIGURE 1A, there is illustrated a processor-based system 10 utilized for implementing the present invention, specifically the aforementioned E-STAMP and POSTAGEMAKER programs. System 10 includes chassis 11 enclosing processor ("CPU") 12 and disk drive 14. System 10 is a general purpose computer, such as an IBM compatible (or Apple MacIntosh) controlled by any general purpose operating system such as DOS or UNIX. Coupled to CPU 12 is display 13, keyboard 15 and mouse 16.

Furthermore, system 10 is adapted for coupling with a postage storage device 18, such as the preferred embodiment touch memory utility ("TMU") button 182 illustrated in FIGURE 1B. Postage storage device 18 is coupled to the processor-based system 10 through a postage storage device receptor 17.

The postage storage device may be any memory device having some residual data capability, where that memory device can provide sufficient security measures to efficiently limit access to the memory of the device to authorized users. For example, since algorithms can be used to control access to the memory device, a standard "diskette" can be used if desired.

The preferred embodiment, TMU button 182, incorporates a small disk having a memory. TMU button 182 is a small, light-weight, portable, essentially non-breakable device available from Dallas Semiconductor, Dallas, Texas. A TMU button 182 may be coupled to processor-based system 10 through button holder 172. In a preferred embodiment of the present invention, a batch of TMU buttons will be manufactured with specifically designated serial numbers for use solely with the present invention.

An advantage of the preferred embodiment (the TMU button 182) is that a TMU button 182 is small enough and light enough that several may be carried in one hand. Furthermore, the TMU button 182 is sufficiently durable to be hand-carried from one location to another. The fact that the portable memory is universally usable with any PC equipped with a button holder 172 allows the per unit cost of TMU buttons 182 to be lower.

Additional alternative embodiments of the postage storage device 18 are illustrated in FIGURE 1B. One alternative postage storage device 18 is a smart disk 188 incorporating its own electronic modules capable of read/write operations. One embodiment of such a smart disk 188, Smart Disk™, can be obtained from Smart Disk Security Corporation, Naples, Florida. The Smart Disk™ looks like a floppy disk and fits into a typical PC's floppy disk drive, connected either externally or internally to processor-based system 10; however, Smart

Disk™ has its own microprocessor that provides secure, password protected storage. One advantage of the Smart Disk™ is that it can operate in a standard PC disk drive without modification to the disk drive or PC.

- 5 Smart Disk™ provides security for stored postage with an encrypted password and the encryption algorithm.

Another type of postage storage device 18 is a smart card 186, a plastic card embedded with a microchip. The microchip contains mathematical  
10 formulas that encrypt computer data to secure access to that data (i.e., postage) and verify a user's identity before allowing access to the data. One drawback in the currently available smart cards 186 is that they require a magnetic card processor 176 hooked to the  
15 processor-based system 10.

Still another type of postage storage device 18 is a PCMCIA card 184. PCMCIA cards are currently used on notebook computers for modular storage and communication. Both external and internal add-on  
20 hardware 174 (i.e., card slots) are available for PCs.

The portable memory can contain data fields with specific information, such as passwords, stored therein at particular locations. The portable memory could also contain, for example, a timer, a counter, a  
25 graphics program, a bar code program, or any one of a plurality of other "active" elements which can be incorporated into the operation of the system.

Before an individual can become an authorized user of an E-STAMP program, he/she must first acquire a copy  
30 of the program, register his/her copy of the program with Post N Mail, Inc. and execute a license agreement with Post N Mail, Inc. for the use of E-STAMP. There are at least two ways to acquire and register an E-STAMP program.

35 One way to acquire and register an E-STAMP program is for the individual to communicate directly with Post

N Mail, Inc. to obtain site licenses for whatever number of E-STAMP programs he desires to use, the desired number of postal storage devices 18, and a registration card containing a Post N Mail (PNM) serial number for each postal storage device 18.

Alternatively, an individual may acquire the E-STAMP program at any E-STAMP retail outlet. For example, an individual can buy a postage storage device 18, containing a small quantity of postage, with a copy of the E-STAMP program. That individual will then install the E-STAMP program on a processor-based system 10. FIGURE 2 illustrates one embodiment of the instructions and screen prompts to be followed by the individual during the installation of the E-STAMP program. The instructions and screen prompts illustrated in FIGURE 2 reflect the installation of the E-STAMP program in a "windows" operating environment on a PC equipped with a TMU button 182 and button holder 172. Of course, other means could be employed for implementing the present invention within a processor-based system 10.

The installation instructions 201 inform the individual, or user, how to pull up the E-STAMP installation program. Once the installation program is initiated, screen 203 will appear. Screen 203 instructs the user to connect the TMU holder 172 to a serial port and to insert the TMU button 182 into the holder 172. The user is then instructed to turn on a printer 19 that has been coupled to the processor-based system 10 and check to see that the printer 19 is supplied with paper. Screen 203 further requests that the user prepare the following information: the user's full name and address, an identification number for the authorized user (i.e., an employer identification number (EIN#), if the user is a business or organization; or a social security number (SS#), if the

user is an individual), the user's zip code, the user's telephone number and the user's fax number. The next screen, screen 205 displays the Post N Mail License Agreement with its legal terms and conditions.

- 5 Acceptance of the terms and conditions set out in the license agreement is indicated when the user continues with the installation program.

Next, screen 207 will appear and display the E-STAMP serial number and TMU serial number. At this  
10 time the user-specific information requested in screen 203 should be entered into the E-STAMP program. Once the user has entered the user-specific information, screen 209 will appear warning the user to carefully verify the correctness of the entered  
15 information.

After verifying the information added into the E-STAMP program, screen 211 will remind the user to ensure that a coupled printer 19 is on line. The user information entered into the E-STAMP program will then  
20 be incorporated into a user registration form, one embodiment of which is illustrated in FIGURE 3. The E-STAMP registration form will be printed in triplicate. The user is instructed to sign and mail two copies of the registration form to the creator of  
25 the E-STAMP program, Post N Mail, Inc. and to retain one copy of the registration form. Screen 211 also informs the user that a registration card will be mailed to the user in order that the user may access TMU refilling stations.

30 The E-STAMP installation program continues with screen 213, which describes the progress being made in installing the E-STAMP program, and screen 215, which informs the user when the E-STAMP program installation has been completed.

35 Referring to FIGURE 3, there is illustrated a preferred embodiment of the E-STAMP registration form.

The registration form includes information such as the TMU button serial number 31, the E-STAMP serial number 32, the date and time that the E-STAMP program was installed 33, and user-specific information 35 (e.g., name, address, telephone and fax numbers, and identification number), and a copy of the Post N Mail License Agreement 38 having an identified location for the user to sign. A preferred embodiment of the E-STAMP registration form will also contain all of the information needed to specifically identify the TMU button 182, E-STAMP program, and registered user in an encrypted format 37. The encrypted information 37 will be in a machine-readable graphical security interface such as a standard bar code.

The standard bar code contains white and dark areas in the form of bars that can be read by a laser scanner. The laser scanner illuminates the white and dark areas with a light of a certain frequency. The light is reflected back to the laser scanner in such a way as to indicate the pattern of white and black areas within the bar code. Since white areas reflect much more light than dark areas do, a perpendicular scan of the bar code will allow the scanner to translate the reflected light into the coded information. More than 20 linear bar code languages have been developed, each with its own specifications for how many bars and spaces make up a character, how characters are to be arranged, whether the characters can be letters as well as numbers, and so forth. The most widely-used bar code is the Universal Product Code (UPC) seen on everyday grocery items. The standard bar code currently used by the Post Office is POSTNET ZIP+4 described in Postal Service Publication number 67.

More sophisticated graphical security interfaces have been developed over the last decade, such as Internec Corporations' Code 49 and Laserlight System



Inc.'s Code 16K. A major advantage of these more sophisticated graphical security interfaces is that they contain an error-correction formula which can often recover the entire message even if parts of the code have been torn or damaged.

A preferred embodiment of encrypted information 37 is a graphical security interface developed by Symbol Technologies of Bohemia, New York and is called PDF417, a portable data file. PDF417 is a graphical security interface constructed from data units called "words," each of which is 17 modules long. Bars are made from filling in up to six consecutive modules and each unit has four separate bars and four spaces. In essence, PDF417 can stack the equivalent of up to 90 one-dimensional bar codes, each just three hundredths of an inch high. Thus, the PDF417 symbology is more complicated to produce and scan than is the typical one-dimensional bar code and allows for a denser coding of information. Because the PDF417 symbology specification includes sophisticated protocols for error-correction, the actual density of information is highly variable, but can be ten times the amount of information found in U.S.P.S. PostNet bar code, per square inch. PDF417 is available from Symbol Technologies, Inc., 116 Wilbur Place, Bohemia, N.Y. 11716 and the operation of the PDF417 is detailed in PDF Primer obtained from Symbol Technologies, Inc. and is hereby incorporated herein by reference.

When Post N Mail, Inc. receives the signed Post N Mail License Agreement from the user, the encrypted information 37 can be scanned with a laser scanner so that the information contained therein can be automatically transferred to a registered user's database. When the encrypted information 37 has been transferred to the registered user's database, a registration card containing a Post N Mail (PNM) serial

number will be printed and mailed to the registered user.

Once the user has obtained a registration card for each postal storage device 18, or TMU button 182, acquired, the user may then take that registration card with the user's TMU button 182, or other postage storage device 18, to the Post Office to be registered with the Post Office.

Until the TMU button 182 has been registered with the Post Office, the POSTAGEMAKER program will not recognize TMU button 182 as being an authorized postage storage device 18. Particular Post Office sites will have the POSTAGEMAKER program installed in a processor-based system. The POSTAGEMAKER program will allow a postal worker to interface the postage storage device 18 with the processor-based system residing at the Post Office in order to replenish the amount of postage programmed within the postage storage device 18 in an amount requested and purchased by the user.

To register a TMU button 182, or other postage storage device 18, with the Post Office a postal worker must enter the information on the PNM registration card into the POSTAGEMAKER program. Such information will include the PNM serial number, EIN# number or SS#, TMU button serial number, and the address and telephone number of the registered user. Once all of this information has been entered into the system, the POSTAGEMAKER program will then recognize TMU button 182 and allow a postal worker to replenish the amount of postage stored within button 182 at the request of the user in a manner to be discussed below.

Alternatively, a pair of systems 10 may be linked together through Public Switched Network ("PSN") 102 via modem 101 or directly through digital telecommunications trunks (not shown). Processor based systems 10 located at different U.S. Post Offices may

be linked via PSN 102 in a conventional well known manner (such as through modem 101) so that information may be shared between the various Post Offices.

Generally, a copy of the POSTAGEMAKER program will be  
5 stored within at least one processor-based system at selected U.S. Post Office locations. PSN linkage of processor-based systems 10 by the Post Office and the user will allow the sharing of information between the various Post Offices and will allow a user to call a  
10 number (an authorized Post Office number) and have the Post Office transfer the required amount of postage to a postage storage device 18 installed at a user site by modem.

Referring to FIGURE 4A, there is illustrated a  
15 preferred embodiment of a display screen shown on display 13 to a U.S. Post Office employee when accessing the present invention on system 10. Of course, the particular display aspects illustrated in FIGURE 4A may be modified in any one of numerous ways.  
20 Also, in a preferred embodiment of the present invention, processor-based system 10 will provide for input from a user via keyboard 15 and mouse 16. However, other various forms of input available to processor-based systems may be utilized, such as a  
25 light pen or a touch-sensitive screen (both not shown).

At the upper right-hand corner of display screen 40, there is indicated an POSTAGEMAKER serial number, in this example "77014-9998-44." This serial number may include the zip code of the Post Office location,  
30 or may be selected at random. This serial number may also include a designation of a particular system 10 or a designation of the postal employee performing the transaction.

In the upper left-hand corner of display screen 40  
35 is illustrated a TMU serial number, in this example "2 128 176 32 0 0 0 175." This serial number represents

eight bytes of information stored within TMU button 182, each byte may represent any number from 0 to 255. A TMU serial number is specifically assigned to and will identify a specific TMU button 182. Thus, display screen 40 indicates that the postal employee has coupled an authorized TMU button 182 to a processor-based system 10 which incorporates the POSTAGEMAKER program.

Typically, the first two numerals (bytes) within the TMU serial number are assigned by the button (or memory) manufacturer. The third byte is selected by the U.S. Postal System and identifies TMU buttons 182 specifically designed for the POSTAGEMAKER program, excluding other TMU buttons 182 not designed for the POSTAGEMAKER program, such as disposable buttons, and assisting in the exclusion of any other means for accessing the POSTAGEMAKER program. As a result, the present invention may be designed so that only authorized TMU buttons 182 may access the POSTAGEMAKER program for replenishment of postage as will be discussed below.

The remainder of the TMU serial number is basically the sequential serial number of that particular TMU button 182 in particular.

As the POSTAGEMAKER program reads the information stored within TMU button 182, the TMU serial number and the information in blocks 401 and 402 are displayed on display 13. The "TMU Verification" information in block 401 shows the date and Post Office location where the last addition of postage was electronically stored within button 182. As shown within box 401 of FIGURE 4A, coupled TMU button 182 currently contains a postage balance of \$6.72, which is most likely a portion of the postage that was input into button 182 at 3:18 p.m. on October 30, 1993, at the Post Office having an ID number of "77090-2765-65." It may be

observed that this serial number is different from the POSTAGEMAKER serial number shown at the upper right-hand corner of display screen 40, indicating that these numbers represent two different Post Office locations, and that button 182 was formerly coupled to a processor-based system 10 at Post Office "77090-2765-65" but is currently coupled to a processor-based system 10 residing at Post Office "77014-9998-44".

Box 401 also shows the expiration date of button 182, the user's PNM registration number, the user's E-STAMP serial number, and a strike and dollar counter check as will be described in more detail below. Box 402 is also displayed on screen 10 and itemizes the quantity of postage of designated values that has been used and subtracted from the postage stored in button 182. For example, box 401 of FIGURE 4A shows that \$500.00 worth of postage was initially added to button 182 and that \$6.72 worth of postage remains in button 182. This means that \$493.28 worth of postage has been deducted from button 182. Box 402 of FIGURE 4A shows that postage valued from \$.01 to \$.29 was subtracted from the amount of stored postage 991 times, that postage valued from \$.30-\$.40 was subtracted 166 times, that postage valued from \$.41-\$.45 was subtracted 122 times, that postage valued at \$1.00-\$1.99 was subtracted 14 times and that postage valued at more than \$3.00 was subtracted 16 times.

In a manner to be discussed in detail below with respect to FIGURE 5, the first password (i.e., BCLINTON) is entered into the POSTAGEMAKER software. That password will be used to generate other passwords as described below and checked against the information stored in button 182. If the Post Office requests it, an extra password can be included to access and start the POSTAGEMAKER program. When the correct password for button 182 is entered into POSTAGEMAKER (i.e.,

BClinton), a string of numerals are generated as shown in block 404. In a preferred embodiment of the present invention, the first several numerals within block 404 represent the current time and date. A second string  
5 of numerals represent the POSTAGEMAKER serial number and the Post Office identification number. The remainder of the 45 bytes are generated randomly by the POSTAGEMAKER program. This generation of random numbers is detailed below.

10       Thereafter, a second password is generated from the numbers within block 404 through the application of an algorithm, an example of a second password is illustrated in block 405. These numbers are used as a second password to assist in the random generation of  
15 numerals within block 406.

      In a preferred embodiment of the present invention, fourteen of the 45 bytes or numerals within block 406 represent a button usage analysis (i.e., how much of what value of postage has been used); three  
20 numerals (bytes) represent the number of strikes (or uses) that have been made and subtracted from a starting point of 2,500,000; and four numerals (bytes) represent the dollar value of postage used and subtracted from a starting point of \$2,500,000. The  
25 remainder of the numerals are generated randomly by the POSTAGEMAKER program.

      Thereafter, another algorithm utilizes the numerals generated within block 406 to derive the third password displayed within block 407. If all is  
30 correct, the cursor will then stop within block 408 so that the postal employee may enter a desired amount of postage in U.S. dollars as requested by the user owning TMU button 182 currently coupled to the POSTAGEMAKER program. In a preferred embodiment of the present  
35 invention, four bytes represent the amount of postage entered by the postal worker, ten bytes represent

user-specific information, five bytes represent the user's zip code, three bytes represent the original postage amount, three bytes represent the number of strikes (or times that the postal storage device has  
5 been accessed), four bytes represent the accumulated value of postage taken from the postage storage device, and three bytes represent the expiration date of button 182. Button 182 may be programmed to expire at any time desired by the Post Office. The Post Office may  
10 desire that postage storage devices 18 expire every six months in order to maintain a valid registration with updated information.

None of the numbers described above, or the passwords generated therefrom, are displayed on the  
15 screen. However, POSTAGEMAKER utilizes information from button 182 to generate numerals in blocks 406 and 408 to generate the usage analysis log illustrated in block 402 and to perform a counters check illustrated in block 401. The counters check adds the number of  
20 strikes subtracted from 2,500,000 (see block 406; descending strike counter) to the number of strikes made (see block 408; ascending strike counter). If these numbers are accurate, their sum should equal 2,500,000. A similar dollar counter check is also  
25 performed. The TMU button 182 is initialized to recognize 2,500,000 strikes and \$2,500,000 worth of postage. Whenever a user has used 2,500,000 strikes or used \$2,500,000 worth of postage, the postage storage device must be returned to the Post Office, or  
30 exchanged for a new one.

As shown in block 408, the user has desired to add \$500.00 worth of postage to TMU button 182. This amount has been entered by the employee. Subsequent to entering the \$500.00 amount, the postal employee will  
35 press button 409 to initialize the system. Once the appropriate amount of postage has been selected, the

postal employee may press button 410 to "write" the \$500.00 amount into TMU button 182 coupled to system 10.

Alternatively, a user may maintain an account with the Post Office or a credit card account which will be automatically charged for postal charges printed using TMU button 182. In this situation, the Post Office may require a retainer based on anticipated charges and then the Post Office will not enter a set monetary value into TMU button 182, but rather an authorization to debit a particular account and/or a time limitation will be entered into TMU button 182. For example for a TMU button 182 that is to be used for commercial purposes, such as in the present invention, the Post Office may set a month limitation on the button. When the user returns the button to the Post Office at the end of the month, the Post Office will access the memory of the TMU button 182 to determine how much postage has been charged for that month and will bill the user for those charges. Furthermore, if the user has a number of postal storage devices 18 the Post Office can access its records to determine if the user is behind in payments to any of his accounts by searching for accounts using the user's identification number. If the user has overdrawn his retainer or is late in the payment of his accounts, the Post Office can refuse to replenish TMU button 182.

After the postal employee has pressed button 410 to "write" an amount of postage into TMU button 182, display screen 42, illustrated in FIGURE 4B, appears on the screen. Display screen 42 is similar to display screen 40 except for the new information within block 411 which now shows that TMU button 182 contains \$506.72 worth of postage, which was updated at 10:45 a.m. on December 15, 1993 by the POSTAGEMAKER program located at Post Office location "77014-9998-44." Note



that in this embodiment the postage original (block 411) and usage analysis log (block 412) are re-zeroed whenever new postage is added to TMU button 182.

Referring next to FIGURE 5, there is illustrated a  
5 flow diagram of the aforementioned method of providing security within the present invention. First, in block 510, the TMU serial number is accessed by the security program within the present invention. If the TMU serial number is not one specifically assigned to the  
10 U.S. Postal Service, the process will not proceed to step 520. In step 520, the program will write a password provided by the creator of the program. Thereafter, at step 530, the aforementioned data is produced and displayed within block 404. The random  
15 numerals will be produced as a function of the entered password.

Thereafter, in step 540, a first algorithm selected by the U.S. Postal Service will operate on the data within block 404 to produce a second password  
20 (step 550). This second password, displayed within block 405, is used within step 560 to generate a second set of data (the numerals displayed within block 406). A second algorithm within step 570, utilizes the second set of data to produce a third password (step 580).  
25 Once the above is written on the TMU button 182, the Post Office employee will be able to store postage to TMU button 182 by adding the desired amount within block 408 (step 590). Thereafter at step 505, write button 410 is "depressed" to thereby store postage  
30 within TMU button 182.

Referring next to FIGURE 6, there is illustrated the algorithm used within the present invention, and described with respect to FIGURE 5. Note that the TMU serial number may be incorporated into the algorithm(s)  
35 to make each TMU button unique. For a given 8-byte password, "p1" represents the first byte of that

password. For a given 45-byte data area, "d1" represents the first byte of that data. The "mod operator" stands for the modulus, or remainder, of a division.

5       Once the required amount of postage has been transferred to the TMU button 182, the user may then physically carry the button to the desired location of use and couple TMU button 182 to a processor-based system 10 through button holder 172.

10       Once the user has registered his E-STAMP program with Post N Mail and his postal storage device 18 with the Post Office, he may then load the E-STAMP program into a processor-based system 10, if he has not already done so. In a preferred embodiment of the present  
15       invention, the E-STAMP program is loaded into a processor-based system controlled by a set of instructions from a document generating program, preferably an application program programmed to interact with a customer to generate a personalized  
20       greeting card, or other piece of mail.

      An interface program is used to integrate the E-STAMP program with the personalized card generating program. The two application programs will be coordinated. For example, graphic configurations of  
25       postage indicia that correspond to the type of cards and messages generated by the card generating program will be created and imported into the E-STAMP program. In addition, routines may be added to the E-STAMP program that will automatically convert information  
30       entered as the addressee's address into a PostNet Zip+4 bar code and/or automatically encode some of the entered data regarding the postal storage device, the designation of the letter, etc. into a graphical security interface to be printed on a label or an  
35       envelope. Furthermore, the E-STAMP program will be

programmed to format all of the entered information to be printed in the desired format.

In a preferred embodiment of the present invention, the user may want to removably couple two or more postal storage devices 18 to the processor-based system controlled by the set of instructions from the card generating and E-STAMP application programs, hereinafter referred to as the card generating system. Then if one of the postal storage devices becomes depleted of postage or is not replaced before its time limitation runs out, then the backup device may be used so that the system will continue to operate.

Yet before the E-STAMP program can operate with the card generating system, an authorized postal storage device must be coupled to the system and validated by the E-STAMP program. A preferred embodiment uses TMU button 182 coupled to the processor based system through a button holder 172.

Referring next to FIGURES 7A and 7B, the user validation procedure for a postage button coupled to the card generating system begins at Step 700 with the initiation of the user's software program. At Step 701, the software reads the unique serial number of the button and verifies that that serial number falls within a range assigned by the button manufacturer to the Post Office; if it does not, an error occurs and processing halts at Step 702.

TMU button 182 includes several memory sections, each section includes an ID area, a password area and a data area. Access to a given data area is controlled by a password written into the corresponding password area.

When the user's software queries a postage button (portable memory) at step 703, a code indicating that the postage button 182 is a button for the retrieval of postage by a customer (PST) should be returned from the

postage button's first password area 800 (FIGURE 8), otherwise an error occurs at step 704. Next, at step 705 the user's software transmits to the button a password generated by applying a first hash algorithm to the numerical sequence of the TMU serial number for the given button 182. If the password generated by the user's software matches that stored in first password area 801, access to first data area 802 (FIGURE 8) is allowed and processing continues at step 707; otherwise a string of invalid data is received from the button as described above.

At step 707, the user's software reads the button type field in first data area 802. If the button returns the postage button code previously known by the software loaded on the card generating system, then processing continues; otherwise, an error occurs at step 708 and processing halts. Assuming the correct button code is read at step 707, at step 709 the user's software reads the second password area 803 using a second hash algorithm, an example of which is shown in FIGURES 4A and 4B. Specifically, the user's software takes the string of random data acquired by gaining access to a first data area 802 and applies the second hash algorithm thereto. The resulting password is then transmitted to the button, and if a match occurs with the password in second password area 803, access is gained to second data area 804; otherwise a string of invalid data is received from the button. If access to second data area 804 is gained at step 709, then at step 710 the user's software reads the last access date field of second data area 804. If the last access date written into this field is before the current date processing continues, otherwise an error occurs at step 711.

Next, at step 712 the user's software attempts to gain access to third data area 806 (FIGURE 8) of the

postage button coupled to the card generating system. In this instance, the user's software then takes 11 bytes of random data from first data area 802 and 5 bytes of random data from second data area 804 and  
5 applies the third hash algorithm thereto. The resulting password is transmitted to the button and if a match occurs with the password held in third password area 805, access is gained to third data area 806; otherwise a string of invalid data is received from the  
10 button.

Assuming access to third data area 806 (FIGURE 8) is gained at step 712, at step 713 the user's software reads the balance available field of third data area 806 and the refill balance field of first  
15 data area 804. If the balance available is less than or equal to the refill balance then processing continues, otherwise a corrupted button is detected at step 714.

For an uncorrupted button, the user zip code  
20 written into the user zip code field of third data area 806 is read and compared at step 715 with the user zip code assigned to the user's software stored in the card generating system. If they match, processing continues; otherwise, an error occurs at step 716 since  
25 a postage button cannot be used outside the zip code assigned to the corresponding customer software. This feature is (like all security levels in the system) optional, and can be modified to include several zip codes, if desired.

30 At step 717, the customer software reads the value in the amount up-counter of third data area 806 and compares it with a corresponding amount value totalled and stored by the user's software. The amount up- and down-counters in each button are never cleared during  
35 the life of the button. Thus, if the amount in the button amount up-counter is greater than or equal to

the amount in the user's software file, the button passes at step 717; otherwise, an error occurs at step 718. A similar test is performed at step 719 where the user's software reads the value in the strike  
5 up-counter and compares it with a corresponding strike tally kept by the user's software. Again, since the strike counters are never cleared, the value in the strike counter must be greater than or equal to the total in the software file, otherwise at step 720 an  
10 error occurs.

At step 721, the value in the strike up-counter of third data area 806 is added to the value in the strike down counter of second data area 804. Since the strike down-counter always decrements from a predetermined  
15 initial value by one with the printing of each indicia and the strike up-counter always increments by one from an initial value simultaneously, their total must always equal the same value N. Thus, if at step 722 the sum of the values in the strike up- and  
20 down-counters equals predetermined value N, processing continues; otherwise, the button is determined to be corrupted at step 723.

Next, at step 724 the value in the amount down-counter of second data area 804 and the value in  
25 the amount up-counter in third data area 806 are summed. Since the value in the amount up-counter increments by the amount of the postage used with the printing of each indicia from an initial value and the amount down-counter simultaneously decrements from an  
30 initial value by the same amount, the sum of their values must always equal the value Z. Thus, at step 725, if the total of the amount counter data read from the button equals value Z, then processing continues; otherwise, an error occurs at step 726 and processing  
35 is halted.

At step 729, the customer software reads the last access date written into the corresponding field in second data area 804. If the recorded last access date is the same as or before the present date the button passes, otherwise an error occurs at step 730. This prevents the entering of random data into the portable memory.

At step 731, the expiration date written into the expiration date field of third data area 806 is read to determine if the button has expired. If the current date is before the expiration date, the button is still valid; otherwise, at step 732 the button is determined to be expired.

At step 733 a check is made of the update flags, or the refilling operations that the postage button 182 has undergone. The update flag in second data area 804 must be equal to the update flag in third data area 806; otherwise, an error has occurred during the update sequence and processing stops at 734.

If the postage button 182 coupled to the user's system 10, or the card generating system, passes the last test at step 733, the button is validated at step 735 and the customer can now print postage indicia up to the refill balance available or until the termination date of the postage button 182.

Referring next to FIGURE 9, there is illustrated a flow diagram of the process employed by the card generating system that has an E-STAMP program incorporated therein.

At step 901, the card generating system is activated by a customer by touching the screen, or in some other known manner. In a preferred embodiment, the card generating and E-STAMP programs will provide for input from a user via a touch-sensitive screen (not shown); however, other forms of input available to processor based systems may be utilized, such as a

light pen (not shown), a keyboard 15, or a mouse 16. At step 902, a screen appears to the customer listing the types of cards that the card generating system is programmed to produce such as birthday, anniversary, holiday, wedding, etc. An example of such a screen is seen in FIGURE 10. However, this screen, as with all the screens described below, may appear in a wide variety of formats with numerous different options available.

10       Next, at step 903, the customer will be provided with a menu of styles for the type of card that he has selected. A sample screen providing optional styles for a birthday card is illustrated in FIGURE 11. The customer may choose a funny card, a traditional card, a belated card, or a card for a relative. Once the customer selects the style of card that he wants, the card generating system will provide one or more sample cards of that style for the customer to choose from (step 904).

20       When the customer has decided on a specific card, the customer can then create his/her own message to correspond to the card selected, or he/she can personalize the message that is provided (step 905). For example, FIGURES 12A and 12B show an example of a personalized birthday card. In the example shown in FIGURES 12A and 12B, the card generating system allowed the customer to enter the name of the person to receive the card in box 1204 and box 1208, birthday the recipient was celebrating in box 1202 and box 1206, and personal message in box 1210.

30       In step 906, once the card has been finalized a prompt will appear asking the customer if he/she wishes to continue to print an addressed envelope. If the answer is "no," the card generating system will go to step 907 and produce a freshly printed greeting card containing the customer's personalized message and



terminate the program. However, if the customer indicates that he/she wishes to continue the program, then a display similar to that illustrated in FIGURE 13 will appear on the screen.

5       Next, at step 908, the customer is prompted to manually input his/her return address in box 1303. If a return address is not desired, it may be omitted. Thereafter, in step 909, the contents of address box 1305 are entered in a manner similar to the contents of  
10       return address 1303.

Next, at step 910, the card generating system will automatically generate the appropriate PostNet bar code from the addressee's zip code. The printed address will have the PostNet Zip + 4 bar code, as described in  
15       Postage Service Publication 67, printed either above or below the addressee's address. The Post Office encourages the use of PostNet bar codes, as it allows mail to be automatically sorted for distribution. In fact, the Post Office charges less postage for mail  
20       that has the appropriate PostNet bar code imprinted thereon.

The customer may then select the format that the addresses will be printed in by the use of box 1304. The return address and addressee's address may be  
25       printed on labels or on an envelope through printer 19.

Thereafter, in step 912 the customer has the option to continue the program and have the appropriate postage for the card calculated and printed. If the customer declines to continue, then the card greeting  
30       system will terminate its interaction with the customer at step 913 and print the addresses on labels or an envelope, whichever was selected by the customer at step 911.

If, at step 912, the customer decides to continue  
35       to calculate and print the postage, a new screen 140 may appear, such as seen in FIGURE 14, giving the

customer a selection menu for the type of indicia that the customer desires to create (step 914). Once the customer selects a type of indicia, a new screen such as seen in FIGURE 15A will appear with at least one  
5 sample indicia for the customer's selection (step 915). Alternatively, the E-STAMP program may automatically select sample indicia such as that seen in FIGURE 15A that corresponds to the type of card the customer has generated based upon information contained in the CPU  
10 memory (Step 916A). The indicia may be stored in a data base within the CPU or could be downloaded via modem on a time-by-time basis.

Once the customer has selected the desired indicia he/she may personalize the indicia (Step 916B) with  
15 information such as the name of the person whose birthday it is (box 1504) and which birthday that person is celebrating (boxes 1504 and 1506). For example, if the customer selected stamp indicia 1508, the card generating system would prompt the user to add  
20 a number representing which birthday the recipient was celebrating in box 1506. FIGURE 15B illustrates how stamp indicia 1508 would appear after it has been personalized. Of course, for business letters there would be a data base (not shown) containing indicia  
25 pictures and wording appropriate for various situations, including slogans relating to the company using the system.

Thereafter, in step 917, the customer will indicate whether the card will be mailed by itself, or  
30 with enclosures by selecting the appropriate option in box 1310. If no enclosures are included, then the system will calculate the appropriate postage based on the weight of the card, i.e. less than one ounce. If enclosures are to be sent with the greeting card, the  
35 customer must enter the weight of the enclosures. This weight may be entered manually, or automatically

through the use of scale 103 coupled to processor-based system 10, the card generating system, in a manner well known in the art. The weight of the card enclosures will be used to calculate the appropriate postage for  
5 the card.

In step 918, the customer selects the class of mail from the choices shown in box 1309.

Next, at step 919, the customer may select a U.S. postal zone or alternatively elect that the card is to  
10 be sent to Canada, Mexico or some other international designation as depicted in box 1308. Customer selection of the international designation in box 1308 will result in a drop down menu to allow the user to enter the country of designation and allow the E-STAMP  
15 program to automatically calculate the necessary postage.

The E-STAMP program will automatically incorporate the aforementioned entered parameters --weight, class, zone -- in order to correctly calculate the correct  
20 postage to print in conjunction with the meter stamp.

In step 920, the customer is provided with box 1302 to insert the location from which the mail is to be sent. If no location is entered, the location of the card generating system will be entered into  
25 box 1302. The location entered into box 1302 may be utilized by the E-STAMP program to calculate the correct postage.

At step 921, the customer may choose to have the date that the mail is stamped automatically entered by  
30 the E-STAMP program, or the customer may choose to enter the date that the customer desires to show on the card. The customer's choice is registered in box 1312.

At step 922, the E-STAMP program may optionally be programmed to incorporate preselected information,  
35 entered into the E-STAMP program, into an encrypted message that is machine readable. Any number of

graphical security interfaces, such as Symbol's Portable Data File Code (the PDF417 symbology) as described above, may be used to encrypt the information. An encrypted message may include any  
5 combination of the following information: the day, the date, the postage storage device serial number, the E-STAMP serial number, the sender's zip code, the addressee's zip code, the expiration date of the postage storage device, the cumulative values of the  
10 strike and dollar counters, PNM registration number, the user's identification number, and the Post Office identification number.

This encrypted information may be printed separately from the postage indicia or the selected  
15 information may be incorporated within the meter stamp using a graphical security interface. A preferred embodiment, illustrated in FIGURES 16A and B, will print the postage indicia separately from the encrypted message and other information (printed in a visually  
20 recognized form) such as the amount of postage imprinted on the card, the date, etc. By applying the encrypted information onto the envelope, the Post Office can scan the encrypted information to verify that an item of mail has been posted with authorized  
25 postage and to track the use of postage storage devices 18.

In step 923, the E-STAMP program utilizes the input/output ports of the card generating system to send to printer/label maker 19, the correct data  
30 pertaining to the meter stamp, the postage indicia, the encrypted message, the authorized amount of postage, the return address, the addressee's address, etc. to be printed on an envelope, as illustrated in FIGURE 16B, or on detachable labels attached to the back of the  
35 greeting card as illustrated in FIGURE 16A. The detached labels can be removed and attached to the

front of an envelope. Three labels (i.e., return address 1602, addressee's address 1606 and postage indicia 1604), would be printed on a clear film that had been "kiss cut" 1608 to allow each label to be  
5 peeled from the uncut backing.

The amount of postage printed on the meter stamp is automatically debited from the user's account or deducted from the amount stored within TMU button 182. Information stored in TMU button 182 memory is also  
10 automatically updated including the usage record for this particular serial number of TMU button 182 and any other information that requires updating.

The aforementioned steps may be repeated for subsequent transactions of the card generating system  
15 until the TMU button 182 reaches the time limitation embedded in its memory, or has reached the end of its stored amount of postage. If two TMU buttons are coupled to the card generating system, then if one button becomes inoperable, the other button can be  
20 automatically accessed by the card generating system. Typically, the user will check on and/or replace the TMU buttons 182 coupled to the card generating system on a monthly, or other time related, basis.

The aforementioned word processing check  
25 formatting, E-STAMP and POSTAGEMAKER programs have been shown and described with respect to a "windows" operating environment on a general purpose processor-based system 10. Of course, other means could be employed for implementing the present invention within  
30 a processor-based system.

Although the present invention and its advantages have been described in detail, it should be understood that various changes, substitutions and alterations can be made herein without departing from the spirit and  
35 scope of the invention as defined by the appended claims.

WHAT IS CLAIMED IS:

1. A processor based word processing system having a program running on said processor, said program operable for controlling document creation by a user giving input data and instructions to said processor, comprising:
  - means controlled by said word processing system and responsive to input data from a user for creating a document, said document having a section thereof containing the address of a document recipient;
  - means for establishing a transfer section on said document; and
  - means for printing within said transfer section postage indicia pertaining to said document recipient.
2. The system as set forth in claim 1 wherein said document is a check form and wherein said document creation control program is an accounting program operable to print amounts on said check form; and wherein said transfer section of said document contains a transfer medium.
3. The system as set forth in claim 2 wherein the transfer medium is a peel off restick label.
4. The system as set forth in claim 1 wherein said document creation control program is a word processing program, and wherein said transfer section of said document contains a transfer medium.
5. The system as set forth in claim 4 wherein said transfer medium is a peel off restick label.
6. The system as set forth in claim 4 wherein said transfer medium cooperates with a juxtaposed

section of a mailing envelope to create on the outside of said envelope a replica of the postage indicia printed on the document within said transfer section, said replica occurring by chemical reaction with  
5 material contained within said juxtaposed section of said envelope.

7. The system as set forth in claim 4 and wherein said system function includes:

means for calculating from a page count of each said document the amount of postage to print.

8. The system as set forth in claim 4 and wherein said system further includes:

means for calculating from address information contained within each said document the amount of  
5 postage to print.

9. The system as set forth in claim 4 further including:

means for determining if a document being printed is a draft document; and

5 means for inhibiting said printing of postage indicia when a determination is made that the document being printed is a draft document.

10. The system as set forth in claim 1 wherein said postage indicia is customized under control of data provided on an interactive basis between said processing system and said user.

11. An automated system for generating a document, said system comprising:

means for interfacing with a user to generate selected documents;

means for determining the correct postage for mailing each said selected document;

means for generating a personalized postage indicia for each said selected document;

- 5 means for printing said selected document; and  
means for generating and printing said personalized postage indicia including said correct postage together with said printing of said selected document.

12. The system of claim 11 wherein said last-mentioned means includes:

means for selecting one of a plurality of graphical configurations of a postage indicia; and

- 5 means for personalizing said selected graphical configuration.

13. The system of claim 11 wherein said last-mentioned means includes:

means for printing said personalized postage indicia including said correct postage on a label for  
5 subsequent application to a mailing envelope.

14. The system of claim 11 further including:

- means for automatically generating an encrypted message incorporating information entered into said system by said user, said encrypted message printed  
5 together with said printing of said correct postage.

15. The system of claim 11 wherein said means for generating a personalized postage indicia includes graphical configurations of postage indicia.

16. The system of claim 15 further including:



means for allowing a system to select one of said graphical configurations for the printing of said indicia.

17. A method for generating a document under control of a general purpose processor, said method comprising the steps of:

- 5     interfacing with a user to generate a desired document;
- determining the correct postage for mailing said document;
- generating a personalized postage indicia for said document;
- 10     printing said document under control of said general purpose processor; and
- printing said personalized postage indicia including said correct postage together with said printing of said document under control of said general
- 15     purpose processor.

18. The method of claim 17 wherein said generating step further includes the step of:  
       selecting one of a plurality of graphical configurations of a postage indicia.

19. The method of claim 18 wherein said selecting step includes the step of:  
       personalizing said selected graphical configuration.

20. The method of claim 17 wherein said generating step further includes the step of:  
       printing said personalized postage indicia including said correct postage on a label for

5     subsequent transfer to a mailing envelope.

21. A processor-based system for printing a desired amount of postage for mailing a document created within said system, wherein the system is under the control of a set of instructions from a document generating program and a separate postage generating program, said system comprising:

- an interface program integrating said document generating program with said postage generating program;
- means for temporarily coupling said integrated programs to a postage storage device;
- means for automatically calculating a correct amount of postage for a particular one of said documents as a function of mailing parameters entered into said system and specific to said particular document;
- means for formatting data to be sent to a printer coupled to said system, wherein said formatted data is operable to print said correct amount of postage;
- means for selectively creating a postage indicia together with said correct amount of postage; and
- means for printing said created postage and postage indicia on a transfer medium for subsequent transfer to a mailing envelope.

22. The system of claim 21 wherein said postage indicia creating means includes:

- means for receiving input instructing from a system user.

23. The system set forth in claim 21 wherein said postage indicia creating means includes:

- means for selecting from a plurality of preestablished postage indicia.

24. The system set forth in claim 23 wherein at least one of said preestablished postage indicia is stored in said postage generating program.

25. The system set forth in claim 24 further comprising:

means controlled in part by a user for selectively modifying said at least one preestablished postage indicia in said postage generating program.

26. The system set forth in claim 21 further including:

means controlled by said document generating program for printing a document at least partially created under control of a system user.

27. The system set forth in claim 25 further including:

means for transferring said printed postage and indicia from said transfer media to a mailing envelope.

28. The system set forth in claim 26 further including

means for transferring said printed postage indicia from said transfer medium to a mailing envelope.

29. An automated system for generating a personalized greeting card, said system comprising:

means for interfacing with a user to generate selected customized cards;

means for determining the correct postage for mailing each said selected card;

means for generating a personalized postage indicia for each said selected card;

means for printing said customized card; and  
means for generating and printing said  
personalized postage indicia together with said correct  
postage.

- 5           30. The system of claim 29 wherein said  
last-mentioned means includes:  
            means for selecting one of a plurality of  
graphical configurations of a postage indicia; and  
            means for personalizing said selected  
10 graphical configuration.

31. The system of claim 29 wherein said  
last-mentioned means includes:  
            means for printing said personalized postage  
indicia together with said correct postage on an  
15 envelope separate from said printed card.

32. The system of claim 29 wherein said  
last-mentioned means includes:  
            means for printing said personalized postage  
indicia together with said correct postage on a label  
20 for subsequent application to a mailing envelope.

33. The system of claim 29 further including:  
            means for automatically generating an  
encrypted message incorporating information entered  
into said system by said user, said encrypted message  
25 printed together with said printing of said correct  
postage.

34. The system of claim 29 wherein said means for  
generating a personalized postage indicia includes  
graphical configurations of postage indicia.

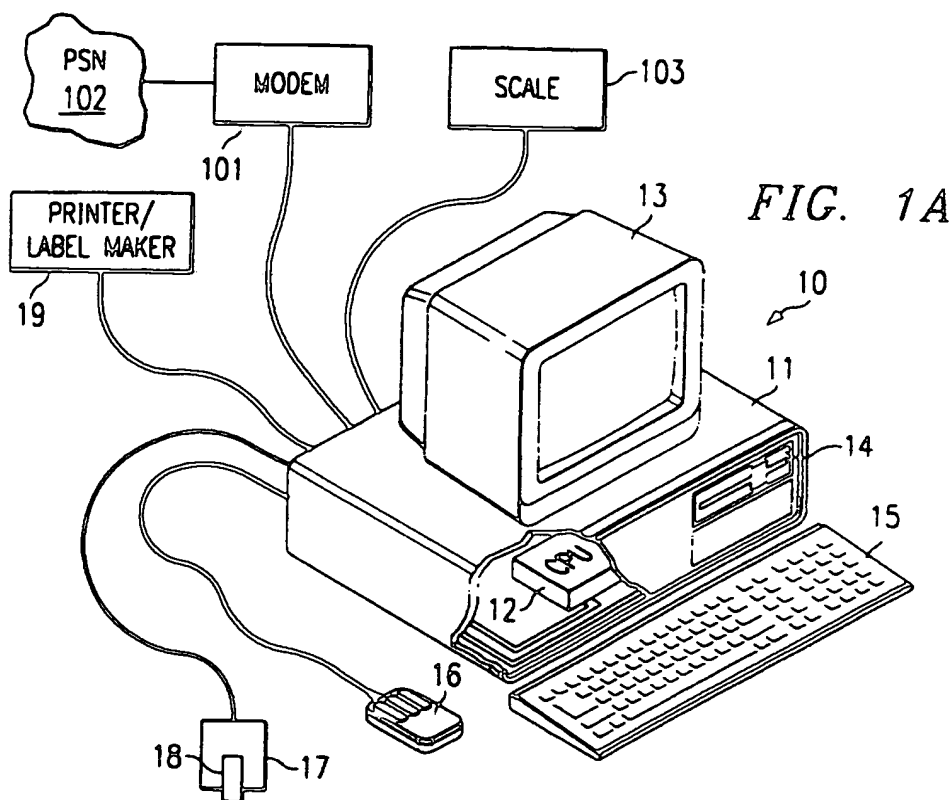
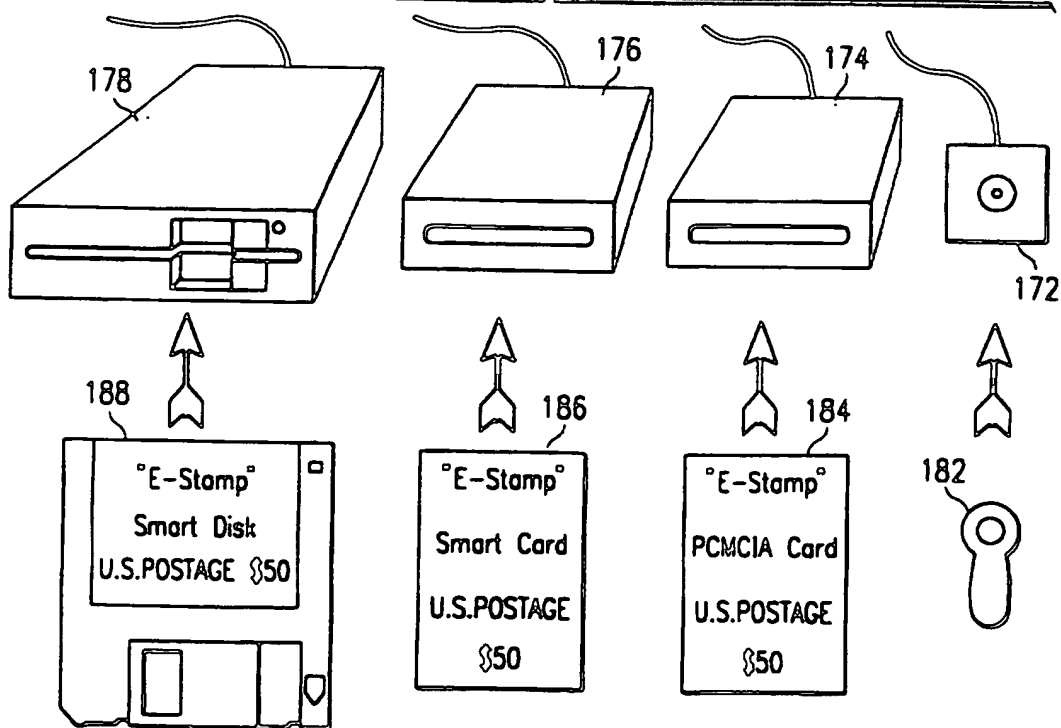
- 30           35. The system of claim 34 further including:

means for allowing a system to select one of said graphical configurations for the printing of said indicia.

36. The system of claim 34 wherein said  
5 customized card generating means includes the creation of documents having particular themes; said system further including:

means for automatically selecting based upon the theme of a document a particular one of said  
10 indicia.

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**FIG. 1B**

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## "E-Stamp" - Post N Mail, Inc.

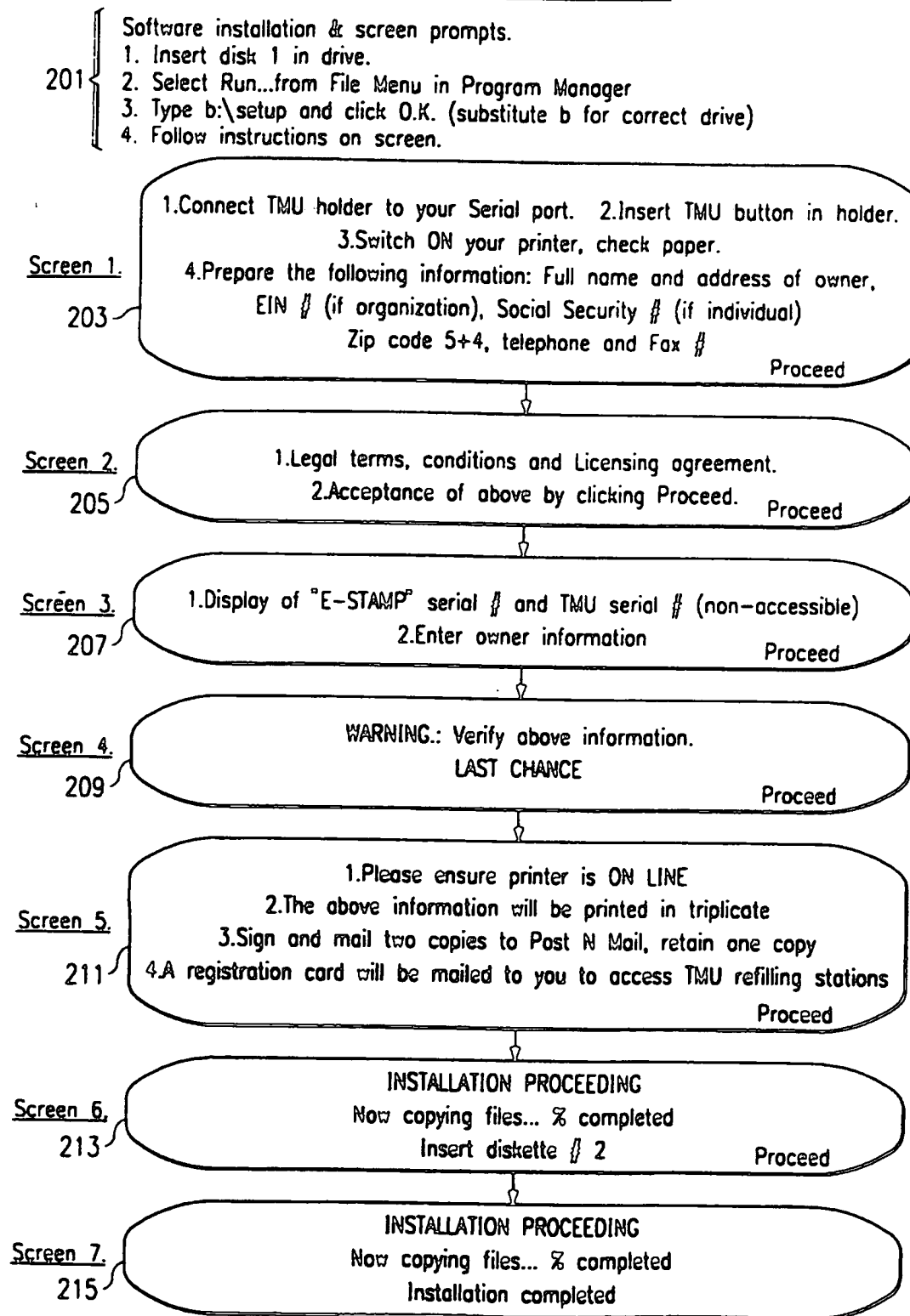


FIG. 2

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Post N Mail, Inc. Telephone (713)583-8909 Fax (713)699-0101  
 505 Cypress Station Dr. Suite # 505  
 Houston, Tx 77030-1612

"E-Stamp"<sup>TM</sup> - Registration form

31 T.M.U. Button Serial #000000001 Date: April 20, 1994 }  
 32 E-Stamp Serial #000000001 Time: 01:29 AM } 33

Registered user:  
 35 Individual Salim G. Kora Social Security # 636-18-0137  
 Organization Global Impex, Inc. Employer I.N. # 76-0422781  
 Address: 505 Cypress Station Dr.  
 Suite #505  
 City: Houston State: Tx Zipcode+4: 77090-1612  
 Telephone: (713)583-8909 Fax: (713)699-0101

Post N Mail License Agreement

This is a legal agreement between you (an individual or an entity), the end user, and Post N Mail, Inc. If you do not agree to the terms of this Agreement, promptly return the disk package and accompanying items (including all hardware, written materials and binders or other containers) to the place you obtained them for a full refund.

License

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1. Grant of License.
2. Term of License.
3. Copyright.
4. Other restrictions.
5. Limited warranty.
6. Customer remedies.
7. No Other Warranties.
8. No Liability for Consequential Damages.

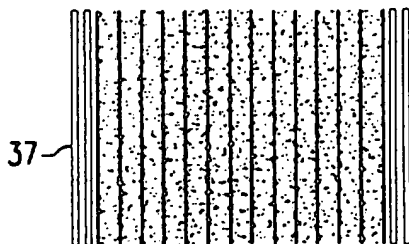


FIG. 3



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FIG. 4A

Quit Options Help		E-Stamp		Post	Mail		
TMU Serial # 2 128 176 32 0 0 175 E-Stamp MAKER Serial # / Zip 77014-9998-44 Post ID #							
ID	Info 404	409	Initialize	Write	410		
ID1	Password 403 BCClinton 8 Bytes PNM password 405	10 45 12 15 93 77 0 14 99 98 44 110 151 65 2 244 45 75 194 86 97 218 211 46 250 237 69 28 167 196 100 11 53 72 141 182 5 167 64 106 190 63 119 13 63 1st 2 Bytes=Time, next 3 Bytes = Date, next 6 Bytes = Post Office ID # 4 Bytes = E-Stamp Maker Ser#, Balance 30 Bytes = Random #					
ID2	193 240 33 94 85 131 83 195 407	48 10 94 101 57 55 67 187 108 65 117 111 179 125 205 132 90 24 146 186 112 240 247 2 Random # = 24 Bytes Usage Analysis = 14 Bytes Strike Counter-Descend. = 3 Bytes (start 2,500,000) \$ Counter- Descend. = 4 Bytes (start \$2,500,000.00)					
ID3	48 104 213 171 225 178 27 68 408	\$500.00 Amount \$ input/balance = 4 Bytes (Max. \$25,000.00000) User Zip = 5 Bytes Strike Counter- Ascend. = 3 Bytes Soc. Security # / EIN # = 10 Bytes (20 digits) \$ Counter- Ascend. = 4 Bytes PNM Registration # = 4 Bytes Postage original amount = 3 Bytes Expiry date = 3 Bytes					
Postage original: \$500.00 IMU Verification PNM Registration #000000001 "1 Stamp" serial #0000000001 Postage balance: \$ 6.72 Time: 3:18p.m. Date: 10-30-93 By: 77090-2765-65 COUNTERS CHECK: 1. \$ Ascend.+Descend. = \$2,500,000.00 2. Strikes, Ascend.+Descend. = 2,500,000							
Total Usage = \$493.28 Usage Analysis Log A) \$.01 to \$.29= 991 B) \$.30 to \$.40= 166 C) \$.41 to \$.45= 122 D) \$.46 to \$.99= 0 E) \$.1.00 to \$.1.99= 14 F) \$.2.00 to \$.3.00= 0 G) Over 3.00= 16							



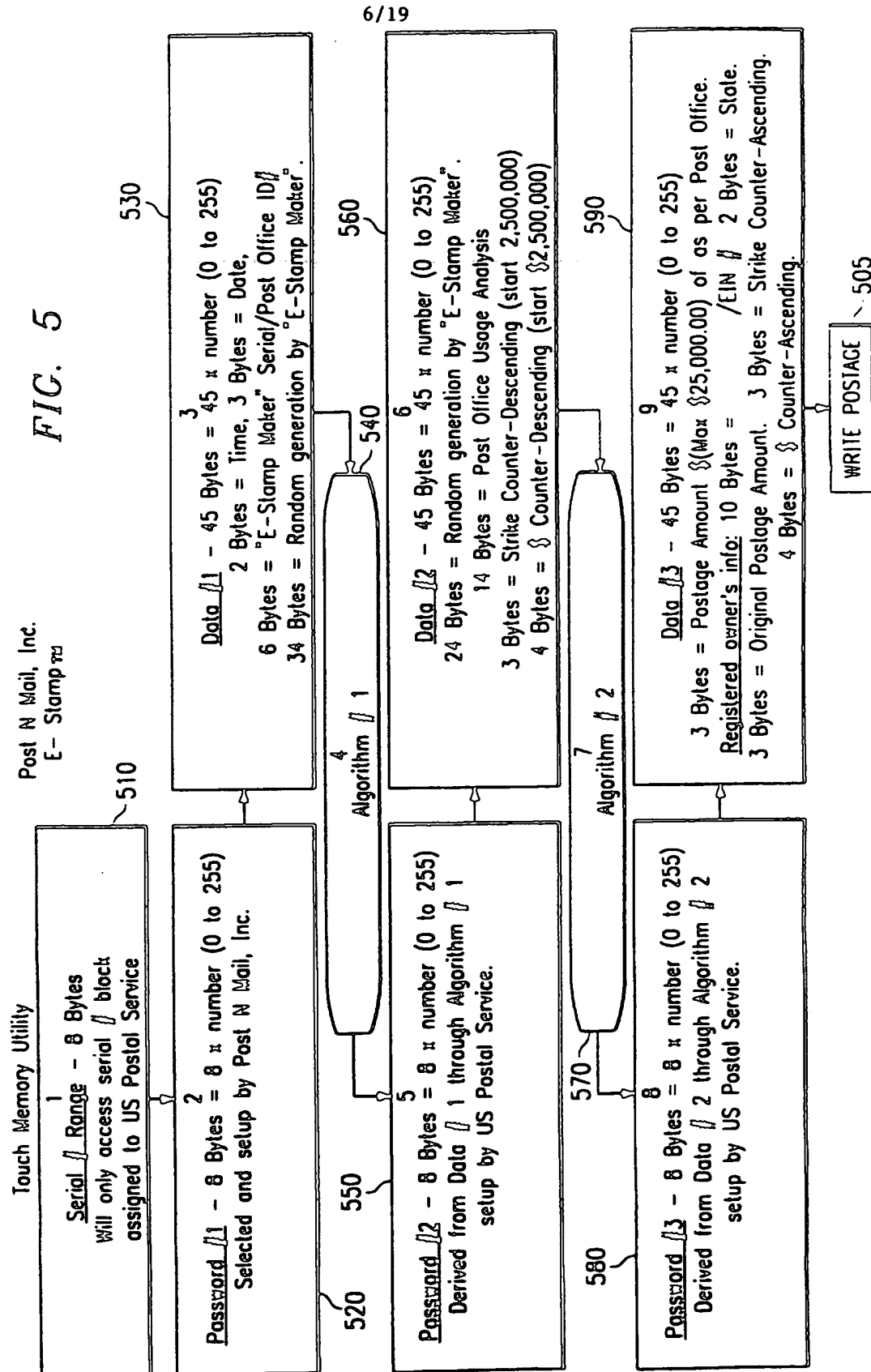
FIG. 4B

Quit Options Help		E-Stamp	Post	Mail	
<p>TMU Serial # 2 128 176 32 0 0 175 E-Stamp MAKER Serial # / Zip 77014-9998-44 Post ID #</p>					
ID	Info 404	409	Initialize	Write	410
ID1	<p>BClinton</p> <p>8 Bytes</p> <p>PNM password</p>	<p>10 45 12 15 93 77 0 14 99 98 44 110 151 65 2</p> <p>244 45 75 194 86 97 218 211 46 250 237 69 28 167 196</p> <p>100 11 53 72 141 182 5 167 64 106 190 63 119 13 63</p> <p>1st 2 Bytes=Time, next 3 Bytes = Date, next 6 Bytes = Post Office ID #</p> <p>4 Bytes = E-Stamp Maker Ser#, Balance 30 Bytes = Random #</p>			
ID2	<p>193 240 33</p> <p>94 85 131 83</p> <p>195</p>	<p>48 10 94 101 57 55 67 187 108 65 117 111 179 125</p> <p>205 132 90 24 146 186 112 240 247 2 Random # = 24 Bytes</p> <p>Usage Analysis = 14 Bytes</p> <p>Strike Counter-Descend.= 3 Bytes (start 2,500,000)</p> <p>\$ Counter- Descend.= 4 Bytes (start \$2,500,000.00)</p>			
ID3	<p>48 104 213</p> <p>171 225 178</p> <p>27 68</p>	<p>\$500.00 Amount \$ input/balance = 4 Bytes (Max. \$25,000.00000)</p> <p>User Zip = 5 Bytes</p> <p>Strike Counter- Ascend.= 3 Bytes Soc. Security # / EIN # = 10 Bytes (20 digits)</p> <p>\$ Counter- Ascend.= 4 Bytes PNM Registration # = 4 Bytes</p> <p>Postage original amount= 3 Bytes Expiry date = 3 Bytes</p>			
<p>Postage original: \$506.72 TMU Verification PNM Registration #000000001 "Stamp" serial #000000001</p> <p>Postage balance: \$506.72 Time: 10:45am Date: 12-15-93 By: 77014-9998-44</p> <p>COUNTERS CHECK: 1. \$ Ascend.+Descend. = \$2,500,000.00 2. Strikes, Ascend.+Descend. = 2,500,000</p>					
<p>Total Usage = \$ 0.00 Usage Analysis Log</p> <p>A) \$.01 to \$.29= 0 B) \$.30 to \$.40= 0 C) \$.41 to \$.45= 0 D) \$.46 to \$.99= 0</p> <p>E) \$1.00 to \$1.99= 0 F) \$2.00 to \$3.00= 0 G) Over 3.00= 0</p>					



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Level 1: Password.

BCLINTON

Level 2: Algorithm 1.

$$\begin{aligned}p1 &= (d1 + d4 + d7 + d10 + d13 + d16) \bmod 256 \\p2 &= (d2 + d5 + d8 + d11 + d14 + d17) \bmod 256 \\p3 &= (d3 + d6 + d9 + d12 + d15 + d18) \bmod 256 \\p4 &= (d19 + d22 + d25 + d28 + d31 + d34) \bmod 256 \\p5 &= (d20 + d23 + d26 + d29 + d32 + d35) \bmod 256 \\p6 &= (d21 + d24 + d27 + d30 + d33 + d36) \bmod 256 \\p7 &= (d37 + d38 + d39 + d40 + d41 + d42) \bmod 256 \\p8 &= (d43 + d44 + d45) \bmod 256\end{aligned}$$

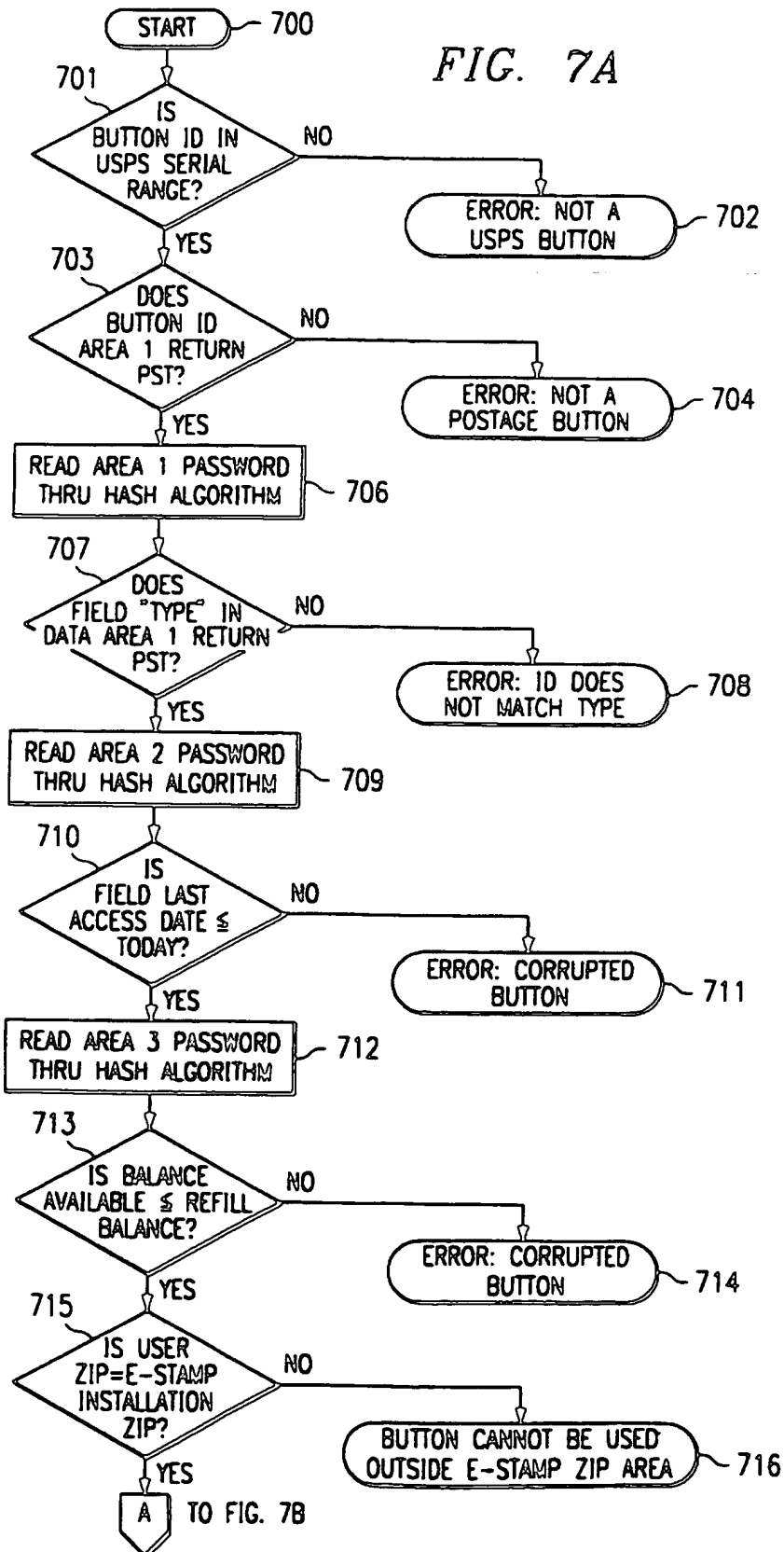
Level 3: Algorithm 2.

$$\begin{aligned}p1 &= d1 \bmod 256 \\p2 &= (d2 + d3) \bmod 256 \\p3 &= (d4 + d5 + d6) \bmod 256 \\p4 &= (d7 + d8 + d9 + d10) \bmod 256 \\p5 &= (d11 + d12 + d13 + d14 + d15) \bmod 256 \\p6 &= (d16 + d17 + d18 + d19 + d20 + d21) \bmod 256 \\p7 &= (d22 + d23 + d24 + d25 + d26 + d27 + d28) \bmod 256 \\p8 &= (d29 + d30 + d31 + d32 + d33 + d34 + d35 + d36 + d37 + d38 + d39 \\&\quad + d40 + d41 + d42 + d43 + d44 + d45) \bmod 256\end{aligned}$$

*FIG. 6*

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FIG. 7A



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FIG. 7B

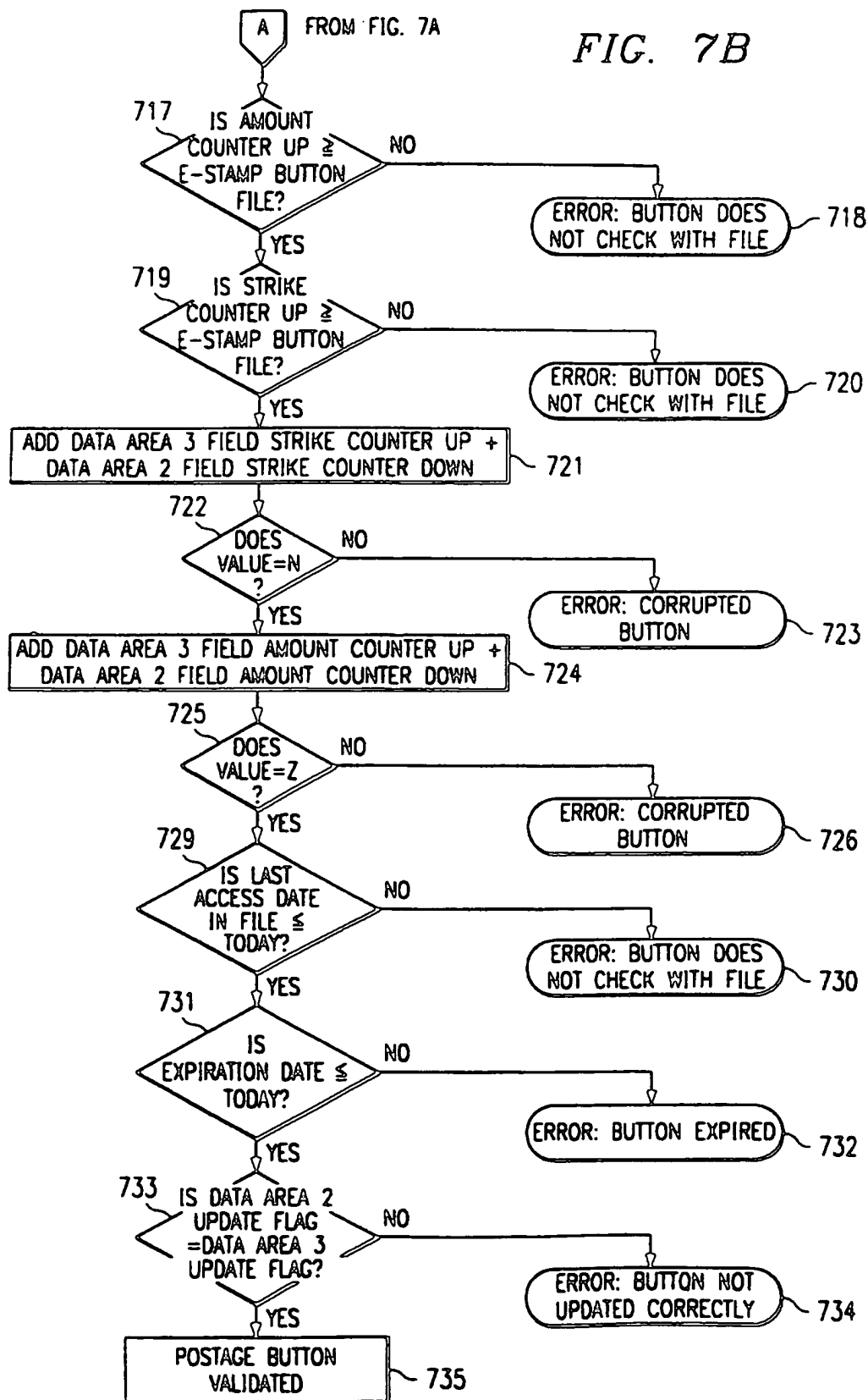
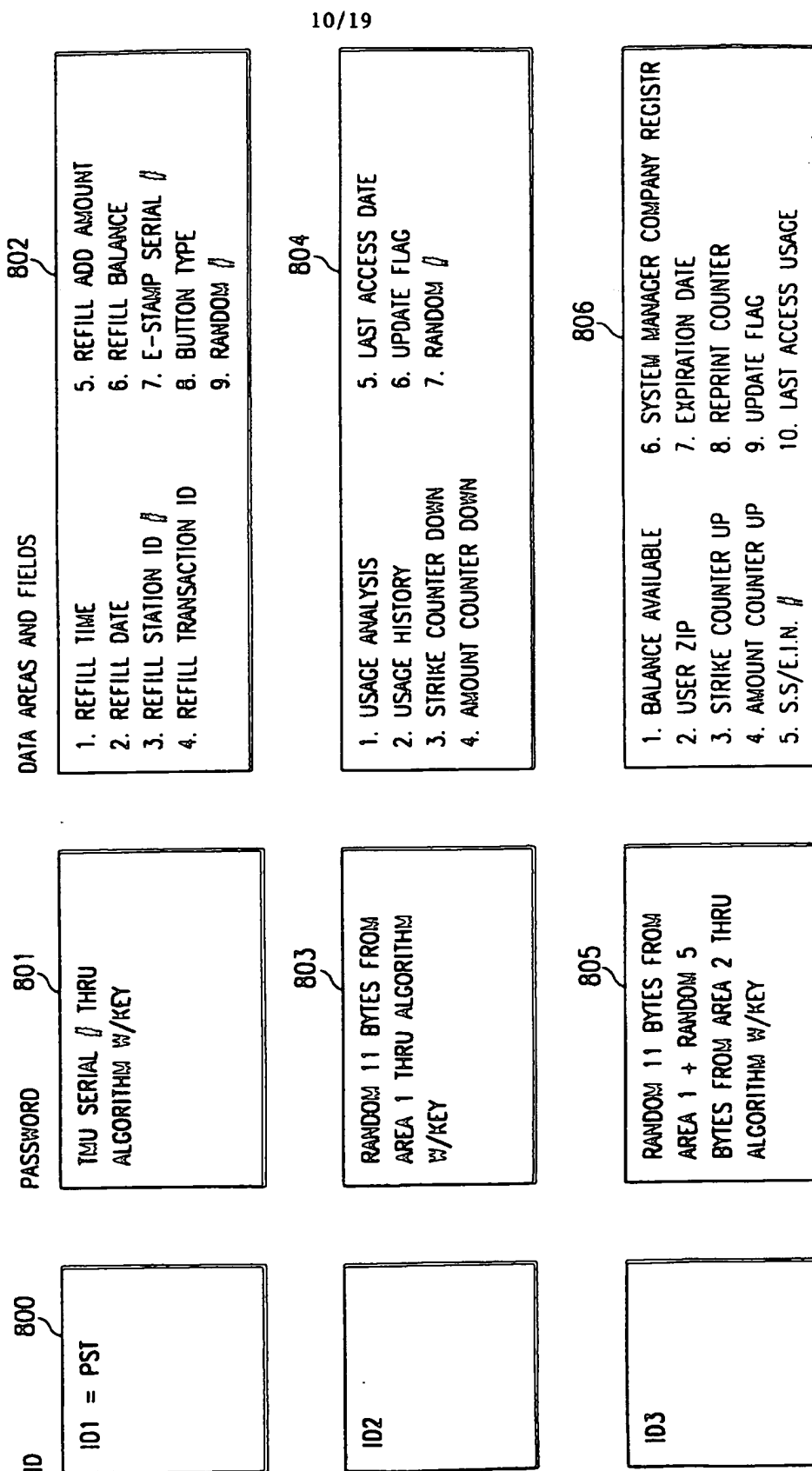


FIG. 8



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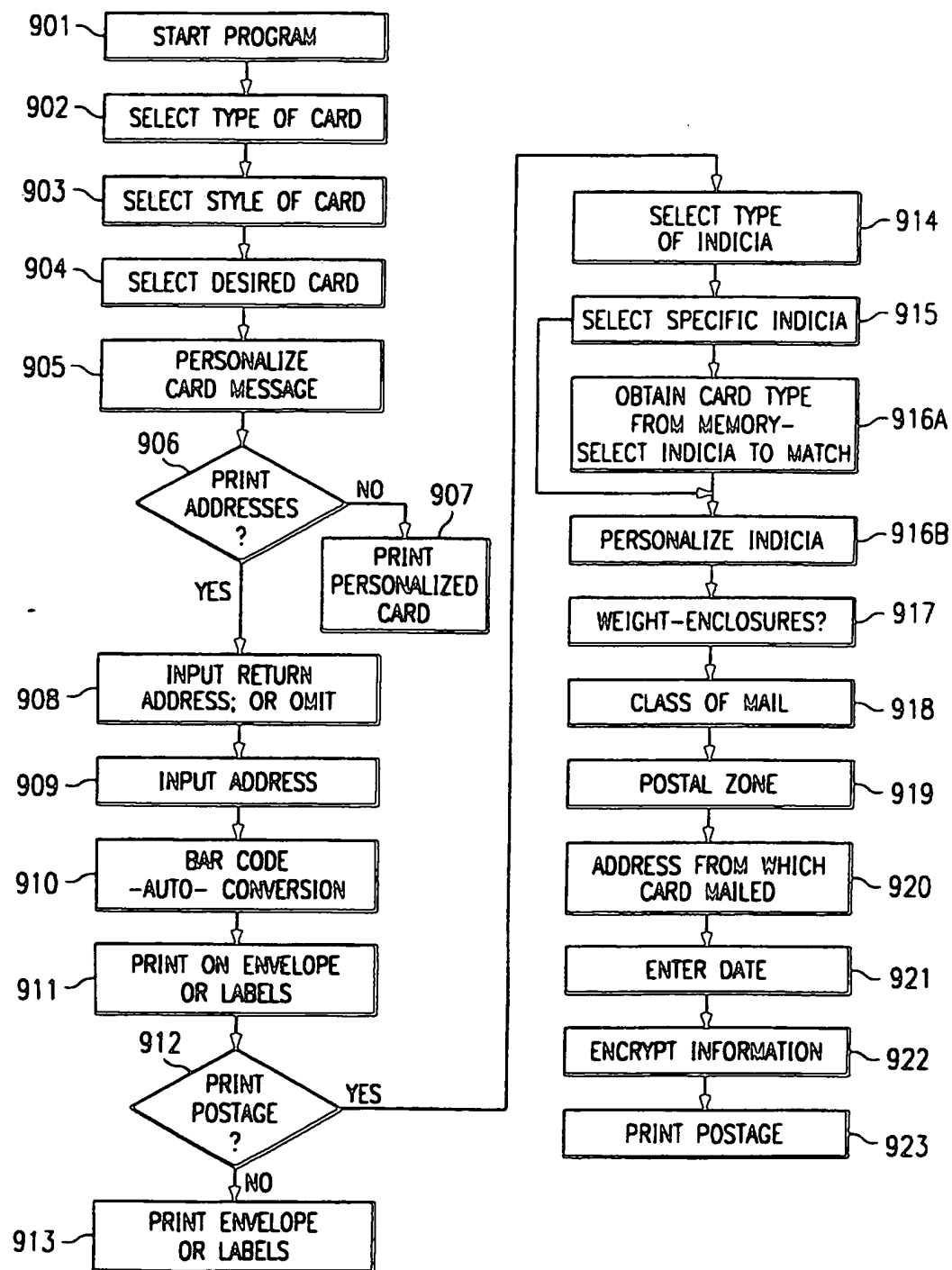


FIG. 9



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Type of Card Desired	
<input type="checkbox"/> Holiday	<input type="checkbox"/> Wedding
<input type="checkbox"/> Birthday	<input type="checkbox"/> Birth
<input type="checkbox"/> Thank You	<input type="checkbox"/> Anniversary
<input type="checkbox"/> Congratulations	<input type="checkbox"/> Other

FIG. 10

Style of Card	
<input type="checkbox"/> Funny	<input type="checkbox"/> Belated
<input type="checkbox"/> Traditional	<input type="checkbox"/> Spouse
<input type="checkbox"/> Family and Relatives	<input type="checkbox"/> Friend

FIG. 11

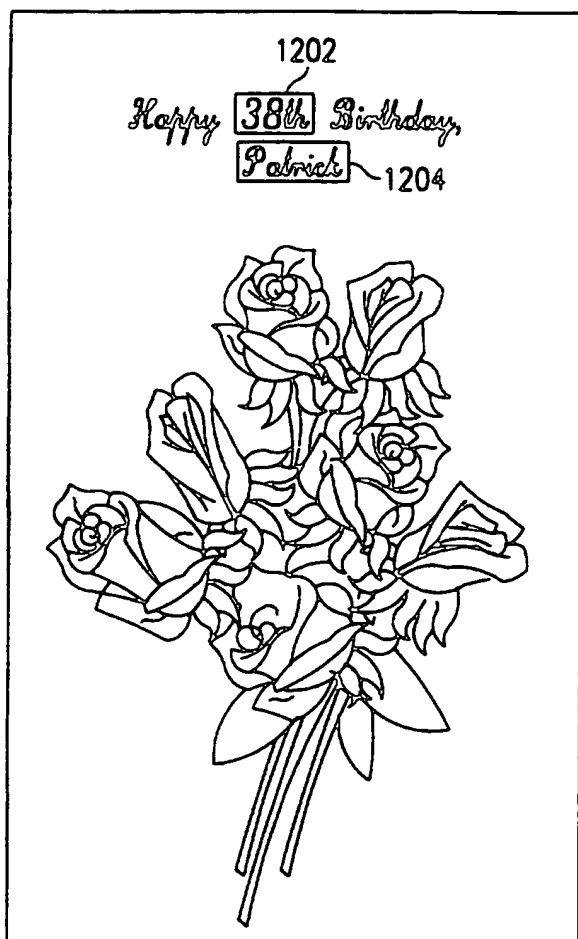


FIG. 12A

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1206  
 Your 38th birthday--  
 what a special time  
 to honor you, Patrick, 1208  
 for all the joy you've brought

FIG. 12B

• • •  
 • • •  
 • • •  
 • • •  
 • • •  
 • • •  
 • • •  
 • • •

Sorry we have to be in Paris!  
 We plan to have a party in March when we return.

1210

Type of Indicia Desired	
<input type="checkbox"/> Holiday	<input type="checkbox"/> Wedding
<input type="checkbox"/> Birthday <u>140</u>	<input type="checkbox"/> Birth
<input type="checkbox"/> Thank You	<input type="checkbox"/> Anniversary
<input type="checkbox"/> Congratulations	<input type="checkbox"/> Other

FIG. 14

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FIG. 13

E-Stamp

---

**Return Address**

Salim Kara  
505 Cypress Station Dr.  
Unit 505  
Houston, Tx. 77090

**Print Format**

☐ Label  
☒ Envelope

**Address**

Mr. David Tannenbaum  
Fulbright & Jaworski, L.L.P.  
2200 Ross Ave., Ste. 2800  
Dallas, TX 75201

**Date**

☐ Today's Date  
☐ Other

**Weight Added**

☒ None  
☐ Enclosures

**Class**

First Class  
Third Class  
Fourth Class  
Priority Mail  
Air Mail

**Zone**

Local  
1  
2  
3  
4  
5  
6  
7  
8  
Canada  
Mexico  
International

**Postage**

U.S. POSTAGE  
FIRST CLASS  
JAN 21 95  
HOUSTON  
TX  
77018-5234  
PM 36ACAO  
8838/AN08-0131

**Print Postage**

**Return Address**

Salim Kara  
505 Cypress Station Dr.  
Unit 505  
Houston, Tx. 77090

**Postage**

U.S. POSTAGE  
FIRST CLASS  
JAN 21 95  
HOUSTON  
TX  
77018-5234  
PM 36ACAO  
8838/AN08-0131

15/19

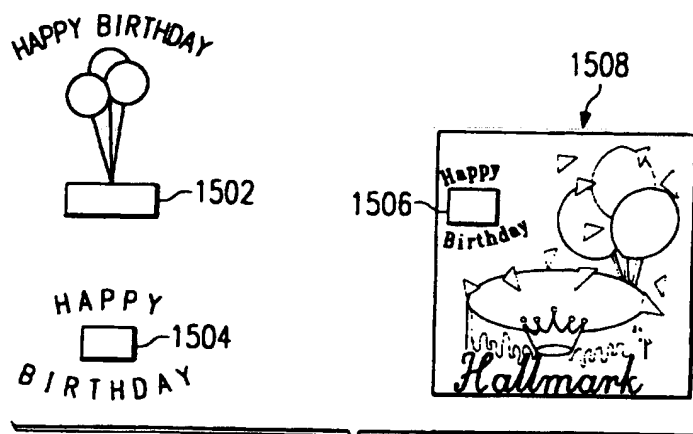


FIG. 15A



FIG. 15B

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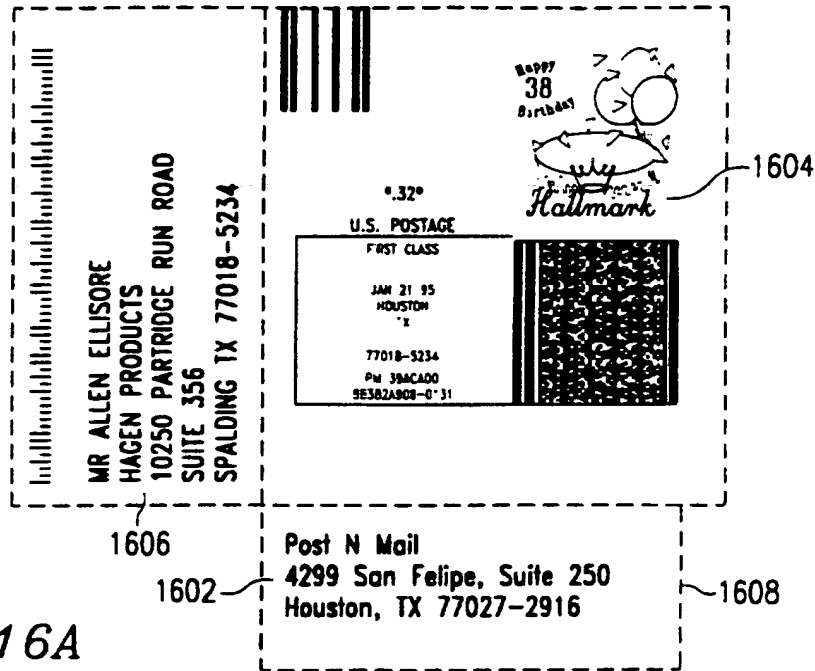


FIG. 16A

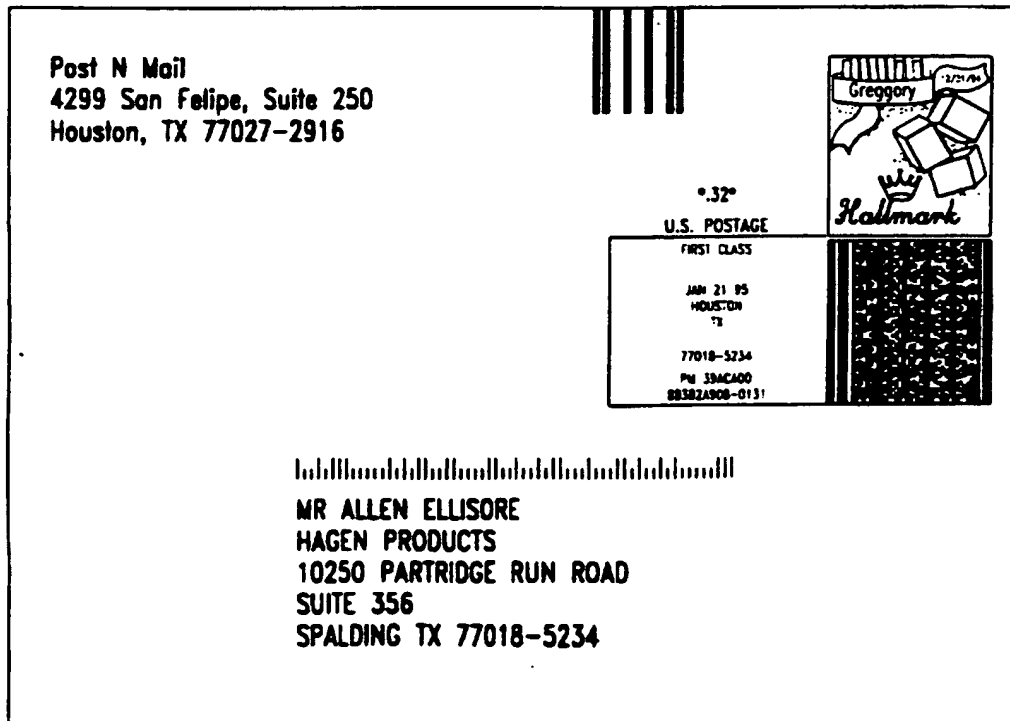
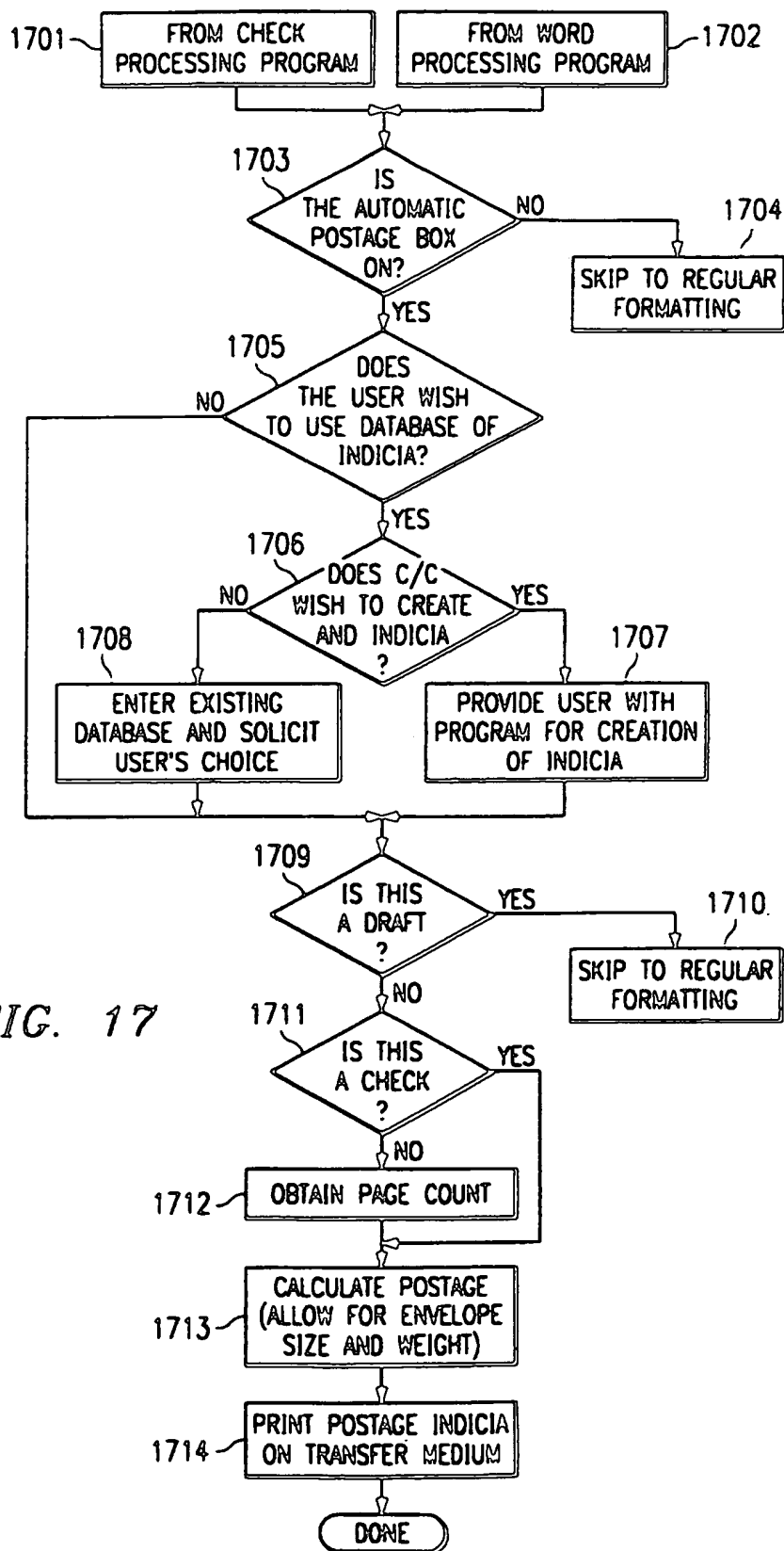


FIG. 16B

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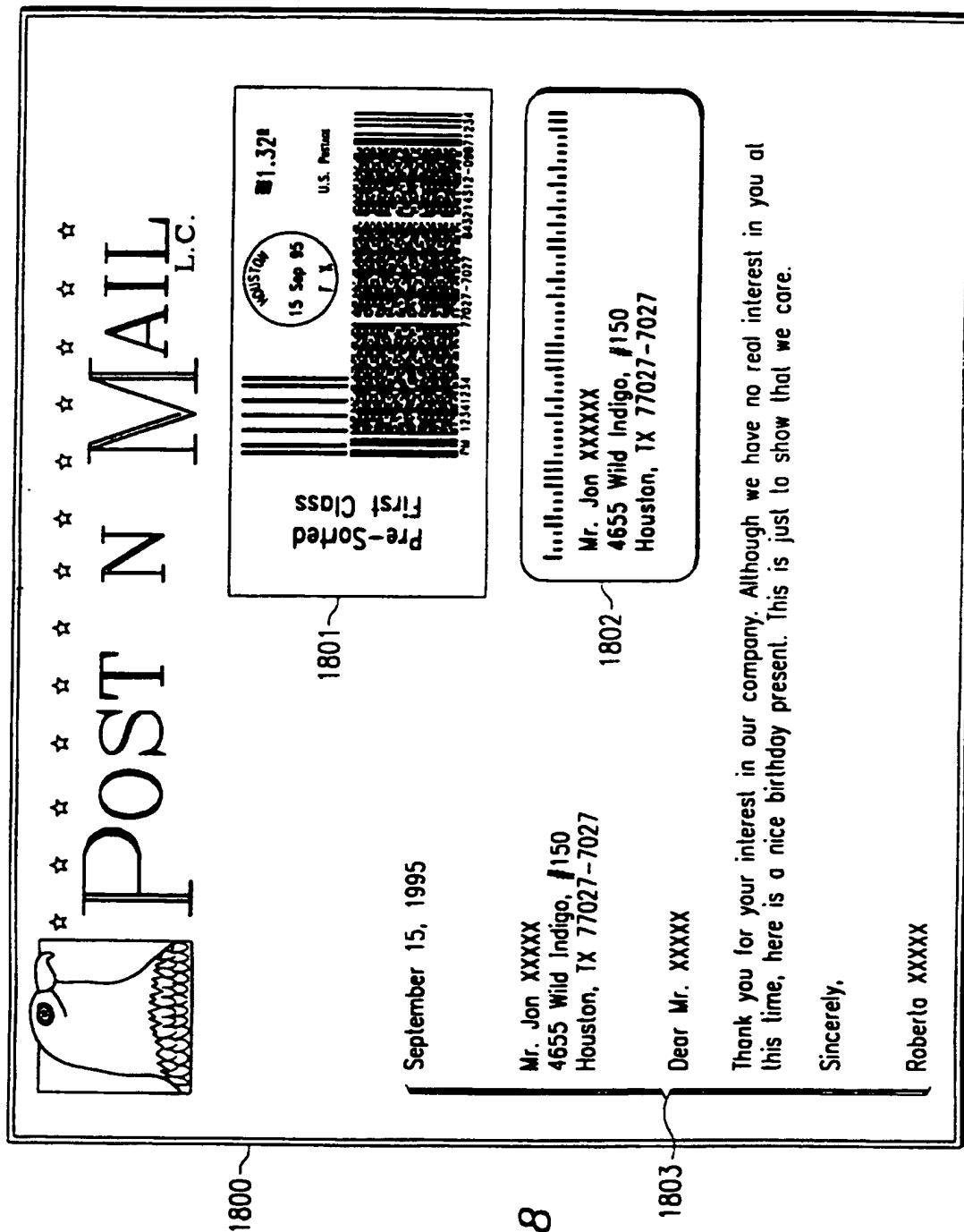


FIG. 18

1900 ~

SENDER'S ADDRESS

1903 ~

DATE

-----

1901 ~

\$ -----

---

Pay to the Order of

-----

PAYEE'S ADDRESS BOX

1902 ~

MEMO -----

FIG. 19

2000 ~

2003 ~

2001 ~

2002 ~

FIG. 20